

# KV-M14D/P14D

## RM-658

## SERVICE MANUAL

**AEP Model**

KV-M14D

Chassis No. SCC-B66A-A

KV-P14D

Chassis No. SCC-B66B-A

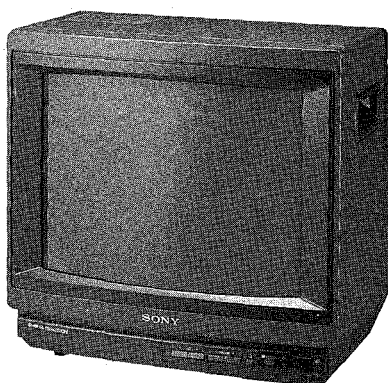


Photo: KV-M14D

# B-1 CHASSIS

**Note:** The service manual for RM-658 has been issued separately.

### SPECIFICATIONS

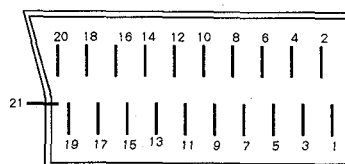
Television system	CCIR B, G and H
Color system	PAL SECAM
Channel coverage	VHF E2 - S20 UHF E21 - E69
Picture tube	Trinitron tube 90degree deflection Approx. 36.8cm (14inches) (Approx. 33.7cm picture measured diagonally)
Input	21 - pin connector : CENELEC standrd AV connector
Output	Earphone jack : minijack, 21 - pin connector : CENELEC standard
Power consumption	47Wh
Dimensions	Approx. 358×346.5×401mm (W/H/D)
Weight	Approx. 11kg
Supplied accessories	RM-658 Remote Commander (1) (KV-M14D ONLY) IEC designation R6 batteries (2) (KV-M14D ONLY) VHF telescopic antenna (1) Antenna connector (300-75 ohm matching transformer is built-in.) (1)
Sound output	3.5w (music power)

Design and specifications are subject to change without notice.

### MODELS OF THE SAME SERIES

KV-M14D/P14D

### 21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kiloohm or less
2	Audio input	0.5Vrms/10kiloohms or more
3	Audio output	0.5Vrms/1kiloohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kiloohms or more
7	B-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14		
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	1Vp-p/75ohms
21	Screening plug	




**TRINITRON® COLOR TV**  
**SONY®**

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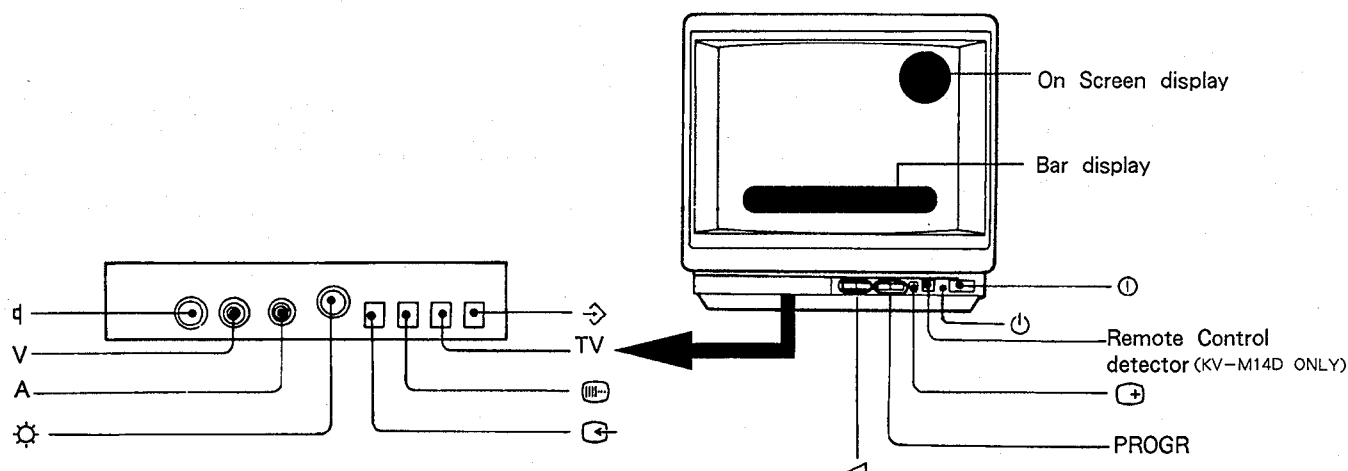
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### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## SECTION 1 GENERAL

### 1-1. FUNCTION OF CONTROLS



#### On the set

##### On-screen display

Indicates program numbers and input mode; . Press the button to make the display appear on the screen, and again to make it disappear. See also "On the Remote Commander" below.

##### Bar display

Indicates the level of the user controls when they are adjusted; volume, contrast or color.

##### power switch

To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing the switch fully.

##### Remote control detector (KV-M14D ONLY)

Point the Remote Commander towards this detector.

##### standby indicator

Lights up brightly when the set is in standby mode.

##### volume +/− buttons

Use to adjust the volume to the required level.

##### PROGR +/− buttons

Use to scan the available channels. To turn on the set from standby mode without a Remote Commander, press one of these buttons.

#### Inside the panel

##### earphone jack (minijack)

##### preset button

##### analogue select buttons

Press repeatedly until the on-screen display of the required adjustment appears ( volume, contrast or color). Adjust by using the + or − .

##### input button

Press this button to view the input picture coming in through the 21-pin connector or the connectors on the front panel. " " appears on the screen. Press again or PROGR + / − to return to the TV mode.

Extra equipment can be connected to the TV using both the 21-pin connector and the input connectors, but only one piece of equipment besides the TV should be turned on at one time.

##### brightness control

Turn clockwise for more brightness or anticlockwise for less.

##### Video/Audio input connectors (phono)

Connect to a VTR, micro-computer, etc.

- V (Yellow) video input
- A (Black) audio input (mono)

##### TV button

Set TV to the system used in your local area.

Each time TV button is pressed, "L" or "B/G" appears on the screen alternately.

L: for French TV standard (system L)

B/G: for CCIR TV standards (system B, G and H) (Western European TV standards)

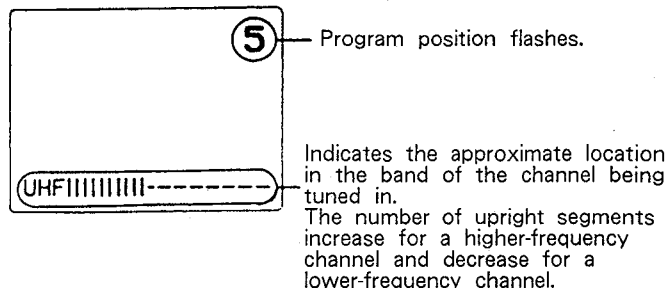
## 1-2. TO PRESET CHANNELS

Use the buttons inside the panel. To open the panel, pull the centre.

### Manual Programming

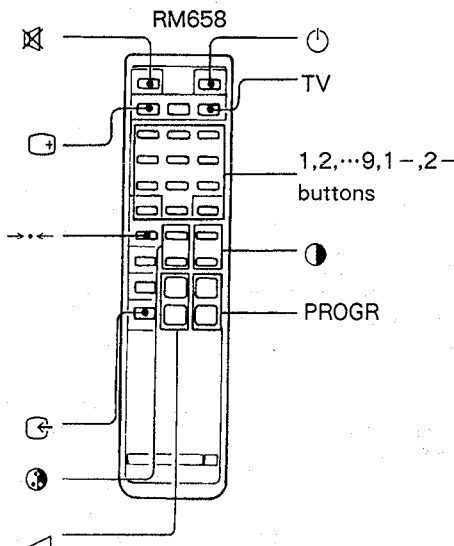
#### To Tune in a Channel in Any Desired Program Position

- 1 Press  $\Rightarrow$  (preset) to select the presetting mode.
- 2 Select the desired program position by using the PROGR + or - button.
- 3 Press  $\triangle$  + or - repeatedly until the TV program of the desired channel appears.  
Repeat steps 2 and 3 for all desired channels.
- 4 Press  $\Rightarrow$  again to return to the TV mode.



## 1-3. ON THE REMOTE COMMANDER

(KV-M14D ONLY)



To operate the Commander, point it toward the remote control detector.

### $\boxtimes$ mute button

Use to mute the sound. Press  $\triangle$  + or  $\boxtimes$  to restore the sound.

### 0, .....9, 1-, 2- buttons

To select :

program 15, press 1- and 5,  
program 25, press 2- and 5.

### $\rightarrow \cdot \leftarrow$ normal button

Press to return color and contrast to factory-set levels.

### $\odot$ standby button

Press to select standby mode. Use this facility to turn off the set for short periods of time.

To return to TV mode, press TV or the program number on the Remote Commander ; there will be a slight delay before the picture is restored. If the main power is turned off when in standby mode, the indicator will take 2 to 6 seconds to go off.

### $\boxplus$ On-screen display button

Press to make the display appear on the screen, and again to make it disappear.

### PROGR + / - buttons

Use to scan the available channels.

### $\triangle$ + / - volume buttons

### $\odot$ color buttons

### $\bullet$ contrast buttons

### $\text{G}$ input button

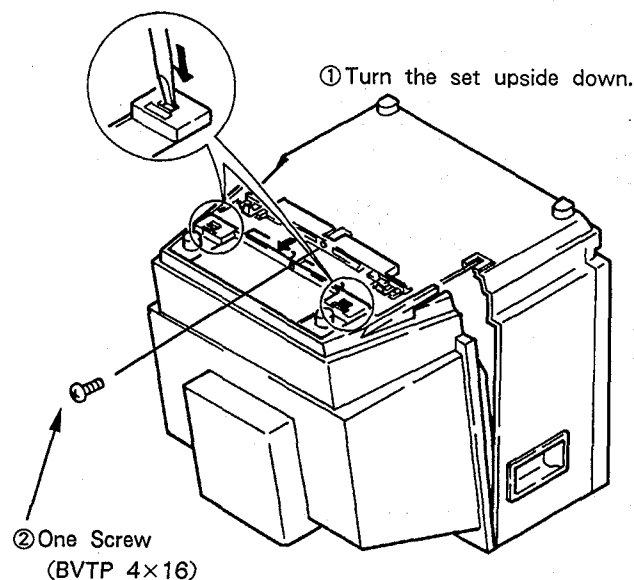
Press to view the input picture from the  $\text{G}$  connector or  $\text{G}$  connectors. " $\text{G}$ " appears on the screen. Press  $\text{G}$  PROGR + / - or a program number key to return to the TV mode.



## SECTION 2 DISASSEMBLY

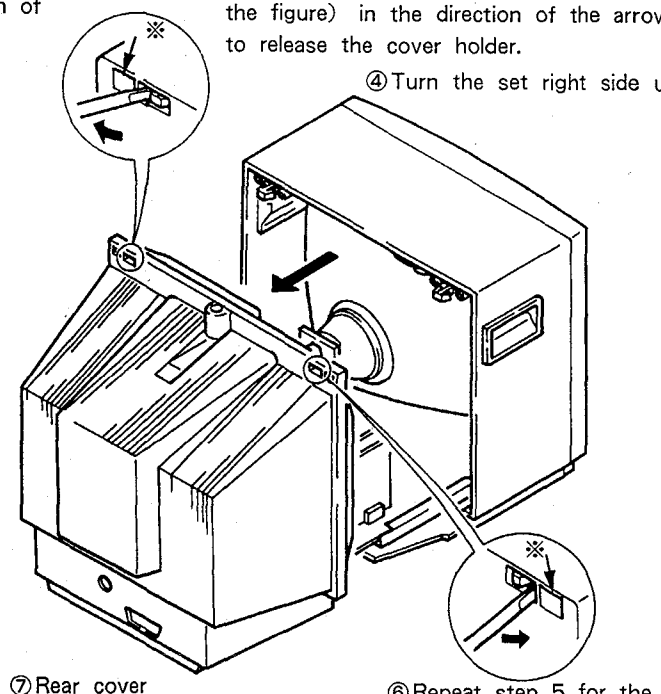
### 2-1. REAR COVER REMOVAL

③ On the bottom of the rear cover, use a screwdriver to push down the two tabs (circled in the figure) in the direction of the arrow to release the cover.



⑤ On the top of the rear cover, use a screwdriver to push the tab (circled in the figure) in the direction of the arrow to release the cover holder.

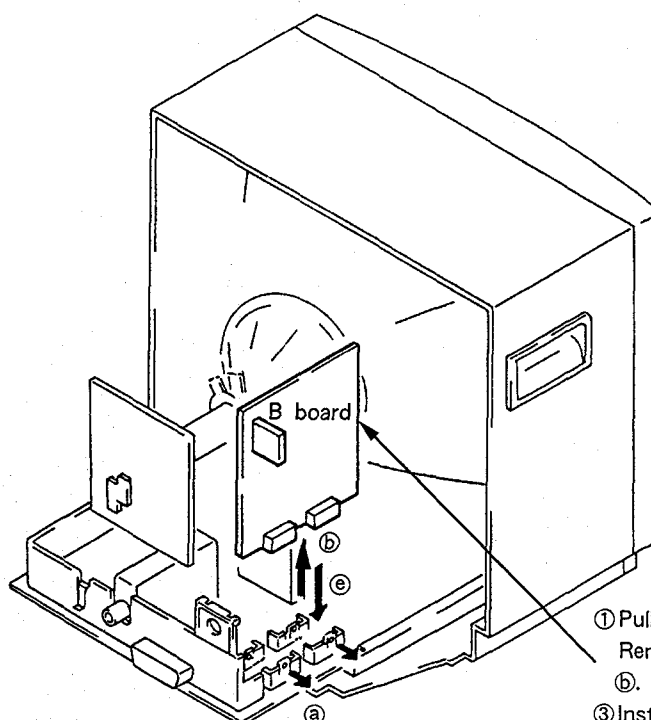
④ Turn the set right side up.



⑥ Repeat step 5 for the other tab, as shown in the figure.

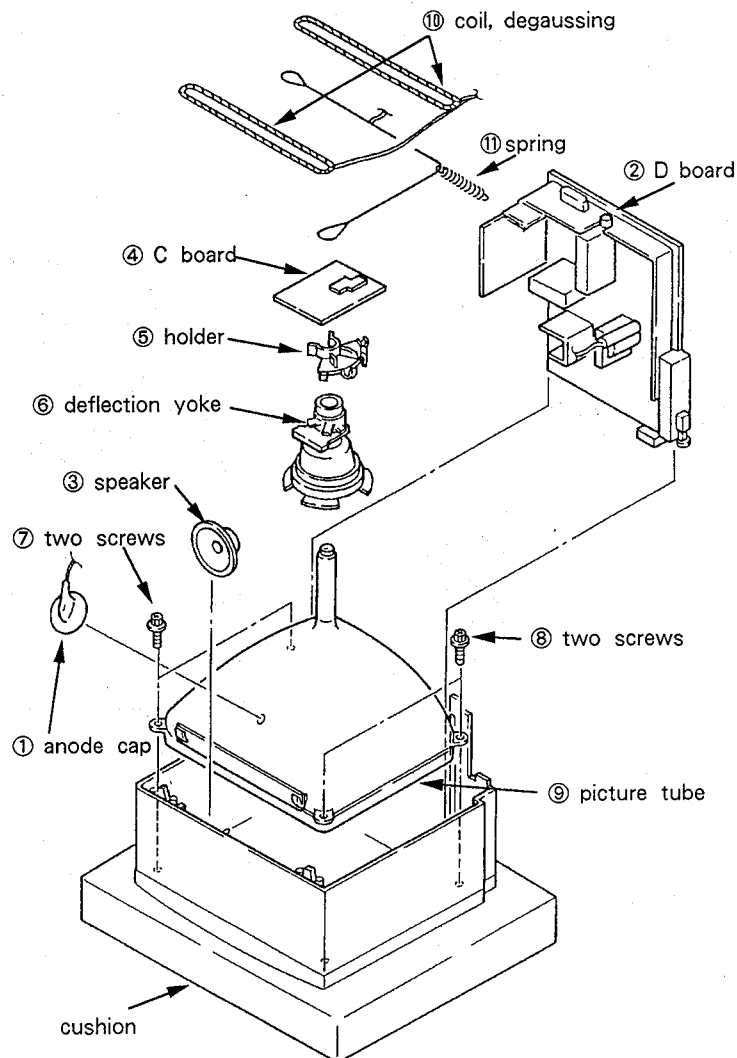
※ In case a nut is provided, please remove it.

### 2-2. B BOARD REMOVAL

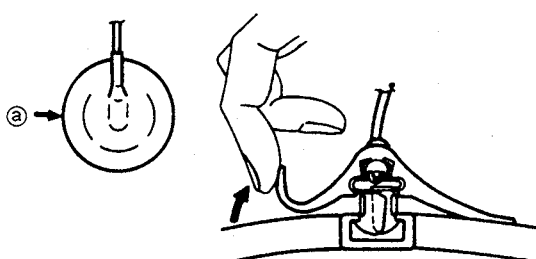


① Pull the two clips in the direction of arrow (a).  
Remove the (b) board in the direction of arrow (b).  
③ Install the (b) board in the direction of arrow (c).

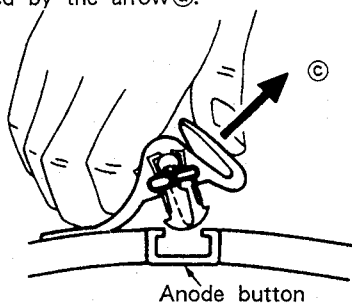
## 2-3. PICTURE TUBE REMOVAL



### ● Removing Procedures



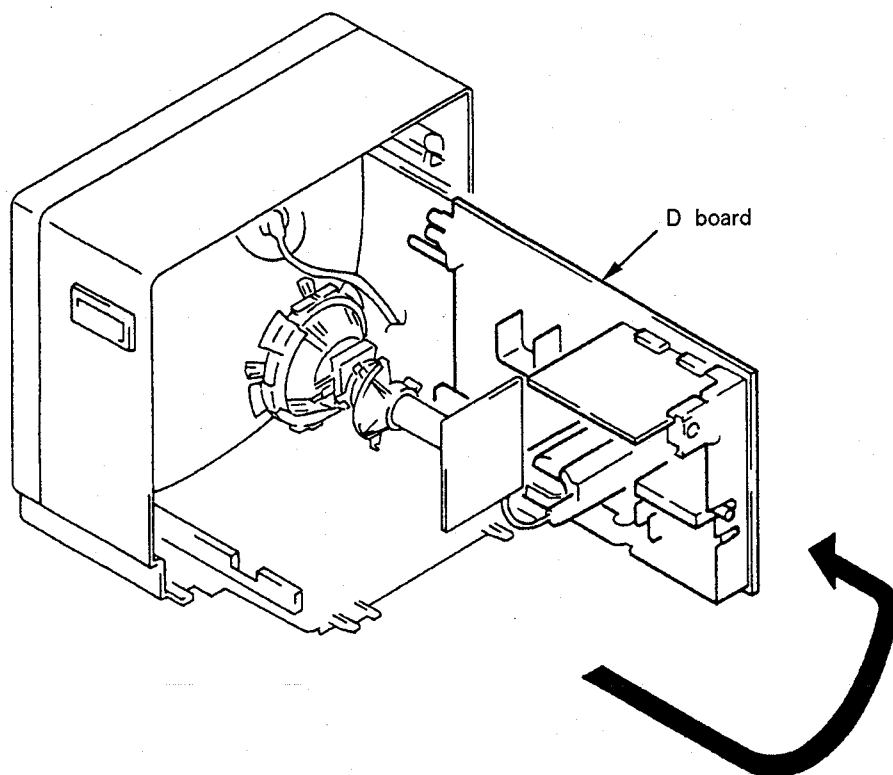
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



- ② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ②.

- ③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

**2-4. SERVICE POSITION**



## SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

- ⊙ CONTRAST control ..... 80% (or Normal by Commander)
- ⊗ BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

### 3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.  

CONTRAST	} normal
BRIGHTNESS	
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly.  
(Fig. 3 - 1 - 3 - 3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3 - 1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magent.(Fig. 3 - 4)

Fig.3-1

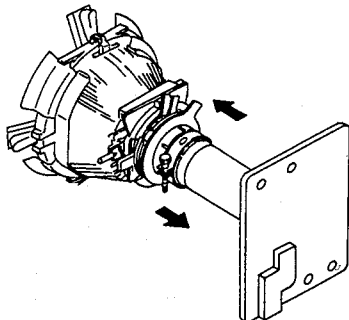


Fig.3-2

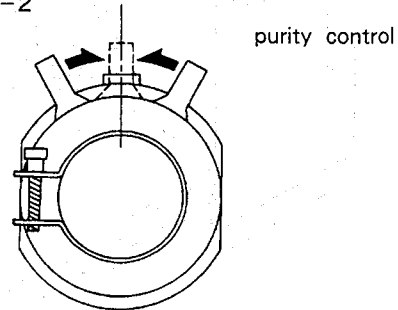


Fig.3-3

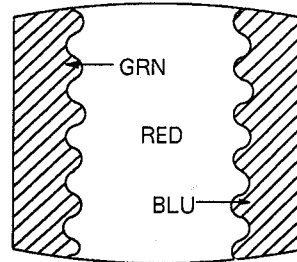
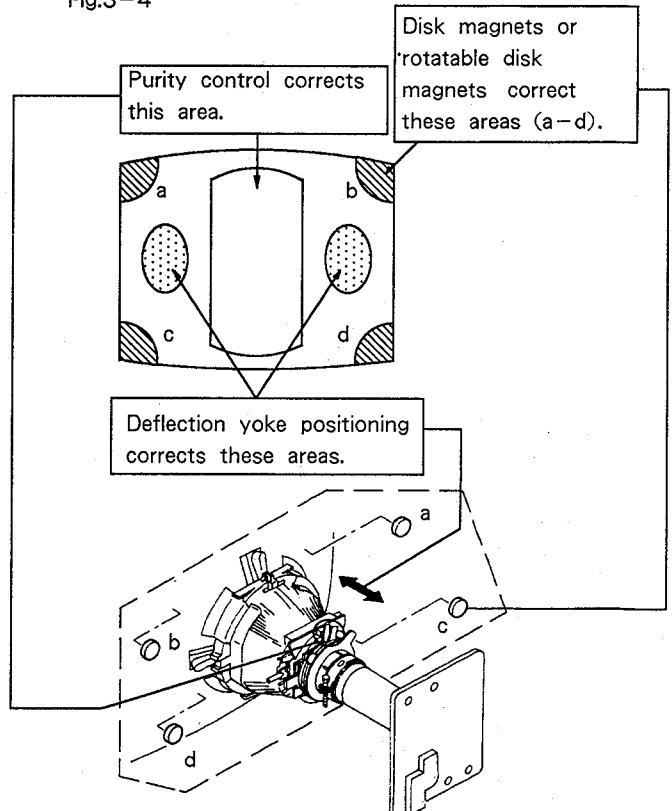


Fig.3-4

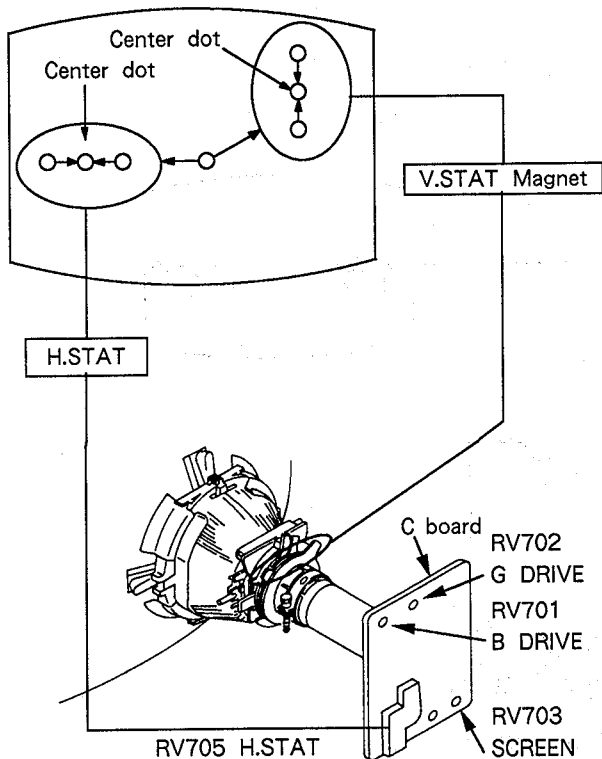


### 3-2. CONVERGENCE

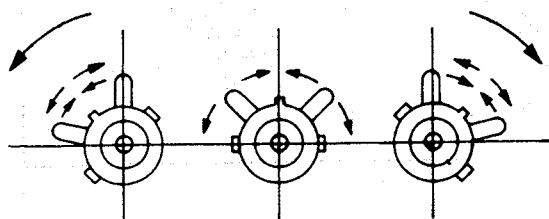
#### Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

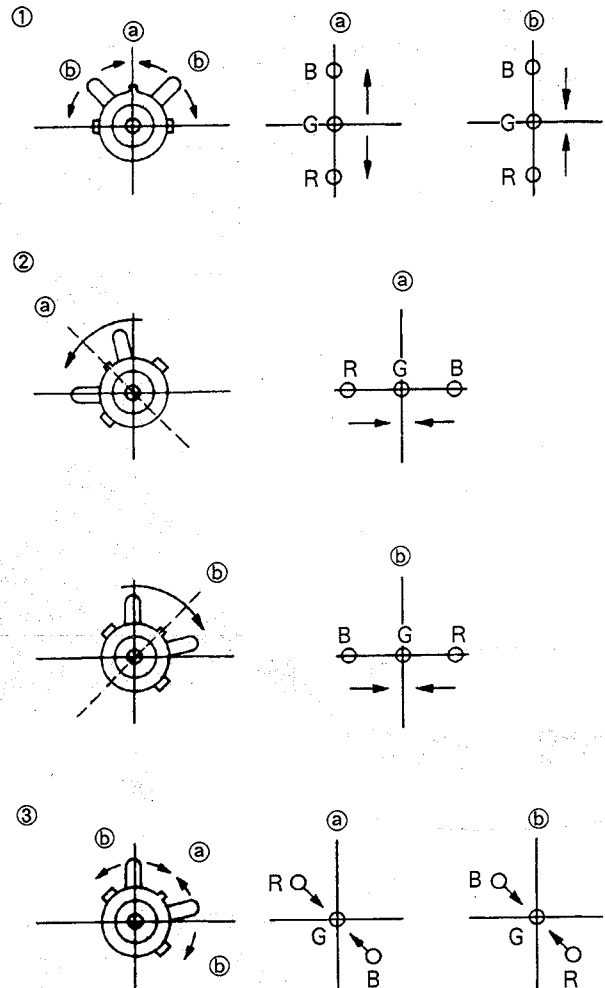
#### (1) Horizontal and Vertical Static Convergence



1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen, (Horizontal movement)
  2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen, (Vertical movement)
  3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

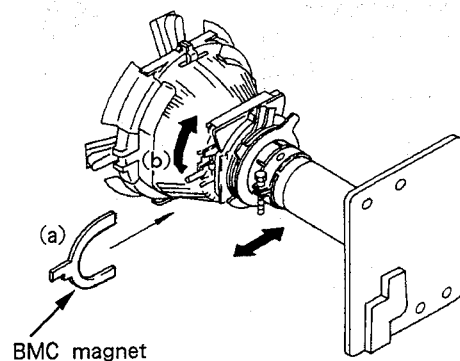


If the red and blue dots do not coincide with green dot, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

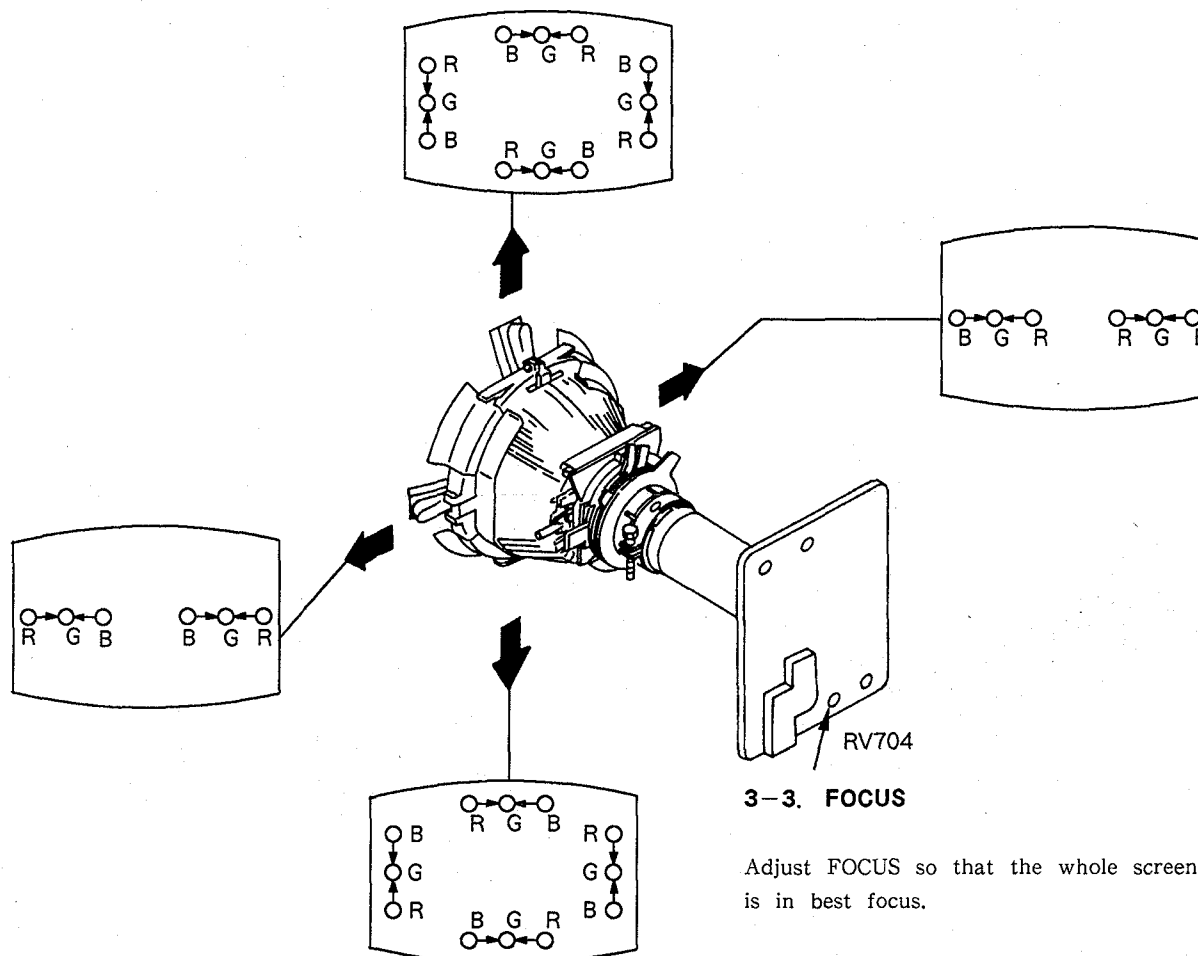
In either case, repeat Beam Landing Adjustment.



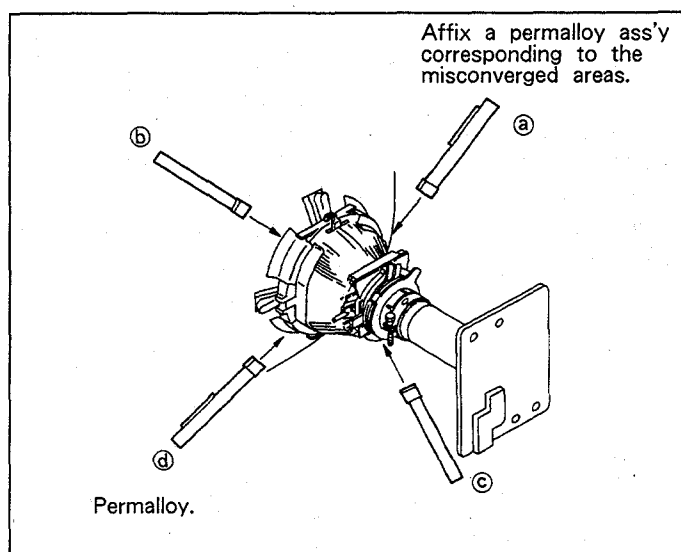
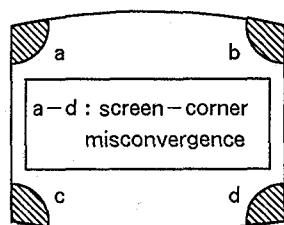
### (3) Dynamic Convergence Adjustment

Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



### (4) Screen-corner Convergence



### 3-4. WHITE BALANCE

[Screen (G2) Setting]

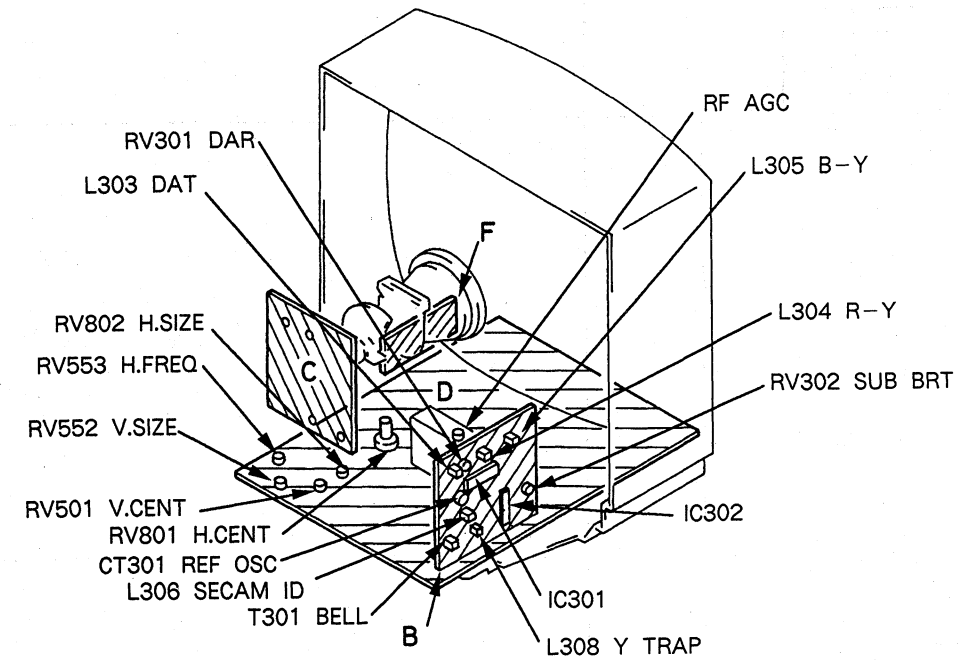
1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 140 V DC to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV703) immediately before the fly-back line disappears.

[White Balance Adjustment]

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV701 (B DRIVE) and RV702 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

## SECTION 4 CIRCUIT ADJUSTMENTS



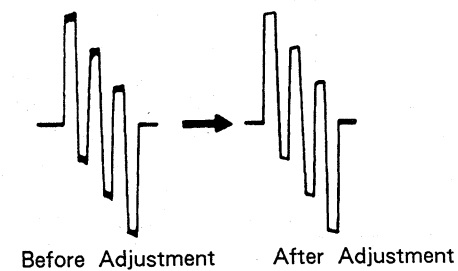
### 4-1. B BOARD ADJUSTMENTS

#### REF OSC Adjustment (CT301)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑩ of IC301 and ground.
3. Adjust CT301 to obtain color synchronization.
4. Remove the jumper wire from IC301.

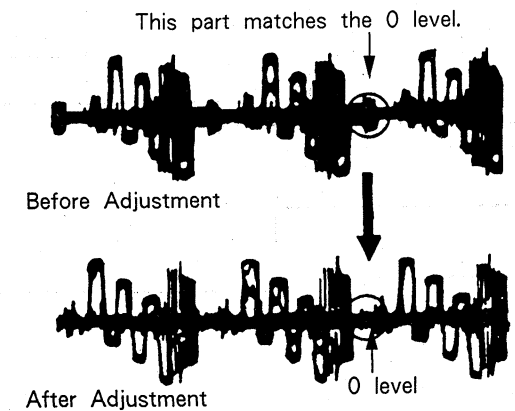
#### 1H DELAY LINE Adjustment (L303 DAT, RV301 DAR)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ③ (B-Y) of IC301 and observe the waveform of the H block on the oscilloscope.
3. Adjust L303 to minimize the double waveform outline.



4. Input a PAL TEST COLOR BAR pattern.

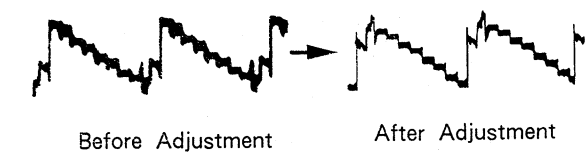
5. Rotate the RV301 VR and adjust till the ANT PAL part of the waveform matches the 0 level.



6. L303 and RV301 affect each other, so repeat till the conditions of both are met.

#### Y TRAP 4.25 MHz ADJUSTMENT (L308)

1. Input a SECAM COLOR BAR pattern.
2. Connect pin ⑩ of IC302 to the oscilloscope and adjust L308 so that the waveform level becomes minimum.



F AGC

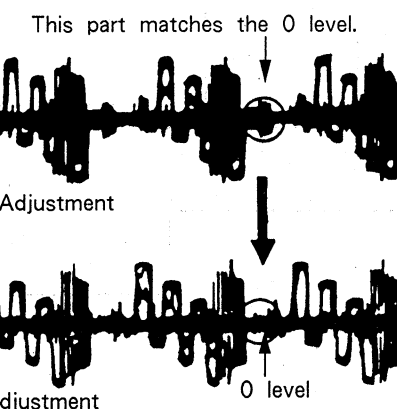
L305 B-Y

L304 R-Y

RV302 SUB BRT

02

RV301 VR and adjust till the ANT PAL  
the waveform matches the 0 level.

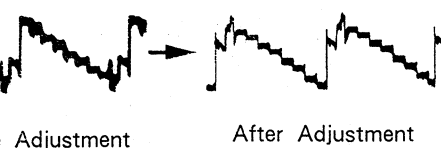


RV301 affect each other, so repeat till the  
of both are met.

#### MHz ADJUSTMENT (L308)

SECAM COLOR BAR pattern.

in ⑤ of IC302 to the oscilloscope and adjust  
that the waveform level becomes minimum.

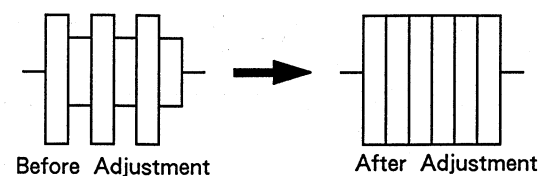


#### SECAM ID Adjustment (L306)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ② of IC301.
3. Adjust L306 so that the indicator goes up to the maximum.

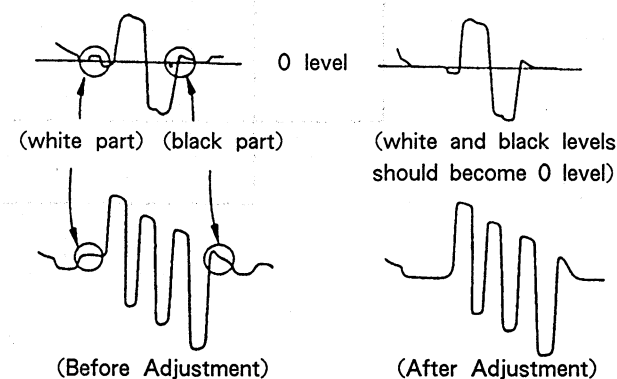
#### BELL FILTER Adjustment (T301)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q302 emitter.
3. Adjust T301 so that the waveform becomes flat.



#### SECAM DISCRI Adjustment (L304 R-Y L305 B-Y)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC301.
3. Adjust L304 (R-Y) so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC301.
5. Adjust L305 (B-Y) so that white and black parts of the waveform of pin ③ becomes 0 level.



#### SUB BRT Adjustment (RV302)

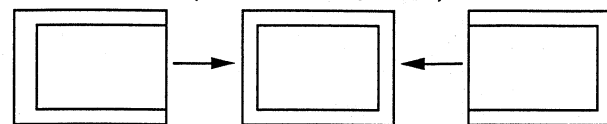
1. Input a PAL COLOR BAR signal.
2. Set CONTRAST and COLOR volume to a minimum, and set the BRIGHTNESS volume control to the mechanical center.
3. Slowly rotate SUB BRT (RV302) until the red portion is faintly illuminated.

#### 4-2. D BOARD ADJUSTMENTS

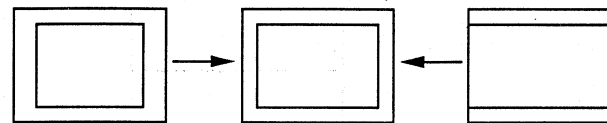
##### TU AGC (RF AGC)

1. Tune in air signals.
2. Adjust AGC VR (RF AGC) so that snow-noise and cross-modulation just disappear from the picture.

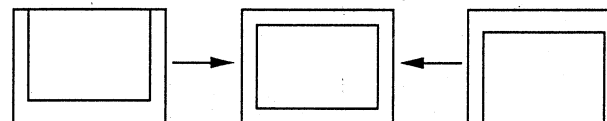
##### RV801 H.CENT (HORIZONTAL CENTER)



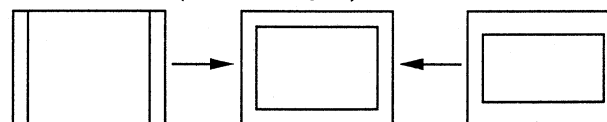
##### RV802 H.SIZE (HORIZONTAL SIZE)



##### RV501 V.CENT (VERTICAL CENTER)

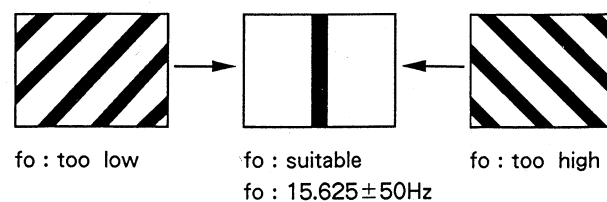


##### RV552 V.SIZE (VERTICAL SIZE)



##### H. FREQ (RV553)

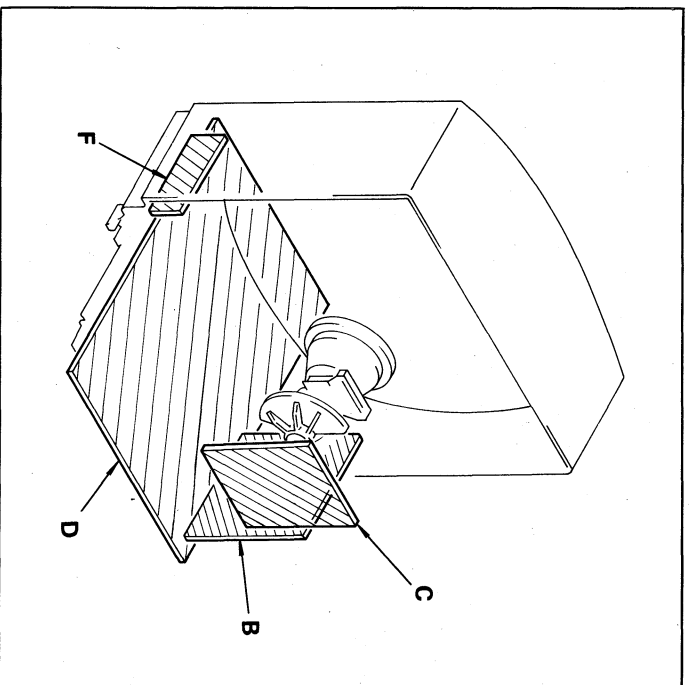
1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100  $\mu$ /16V) between Pin ⑤ and GND of IC551.
2. Adjust RV553 (H. FREQ) to stop scrolling of the picture in the horizontal direction.
3. After adjustment, remove the electrolytic capacitor.





# SECTION 5 DIAGRAMS

## 5-1. CIRCUIT BOARDS LOCATION



- Note :
- All capacitors are in  $\mu$ F unless otherwise noted; pF :  $\mu$ F F 50WV or less are not indicated except for electrolytics.
  - Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch : 5mm  
Rating electrical power : 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M  $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.

no mark : PAL

( ) : SECAM

- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.

- : B+ line
- : B- line
- : signal path

### Reference information

RESISTOR			
: RN	METAL FILM		
: RC	SOLID		
: FPRD	NONFLAMMABLE CARBON		
: FUSE	NONFLAMMABLE FUSIBLE		
: RS	NONFLAMMABLE WIREWOUND		
: RB	NONFLAMMABLE CEMENT		
COIL			
: LF-8L	MICRO INDUCTOR		
CAPACITOR			
: TA	TANTALUM		
: PS	STYROL		
: PP	POLYPROPYLENE		
: PT	MYLAR		
: MPS	METALIZED POLYESTER		
: MPP	METALIZED POLYPROPYLENE		
: ABL	BIPOLAR		
: ALT	HIGH TEMPERATURE		
	HIGH RIPPLE		

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

## 5-2. SCHEMATIC DIAGRAMS (1)

1

2

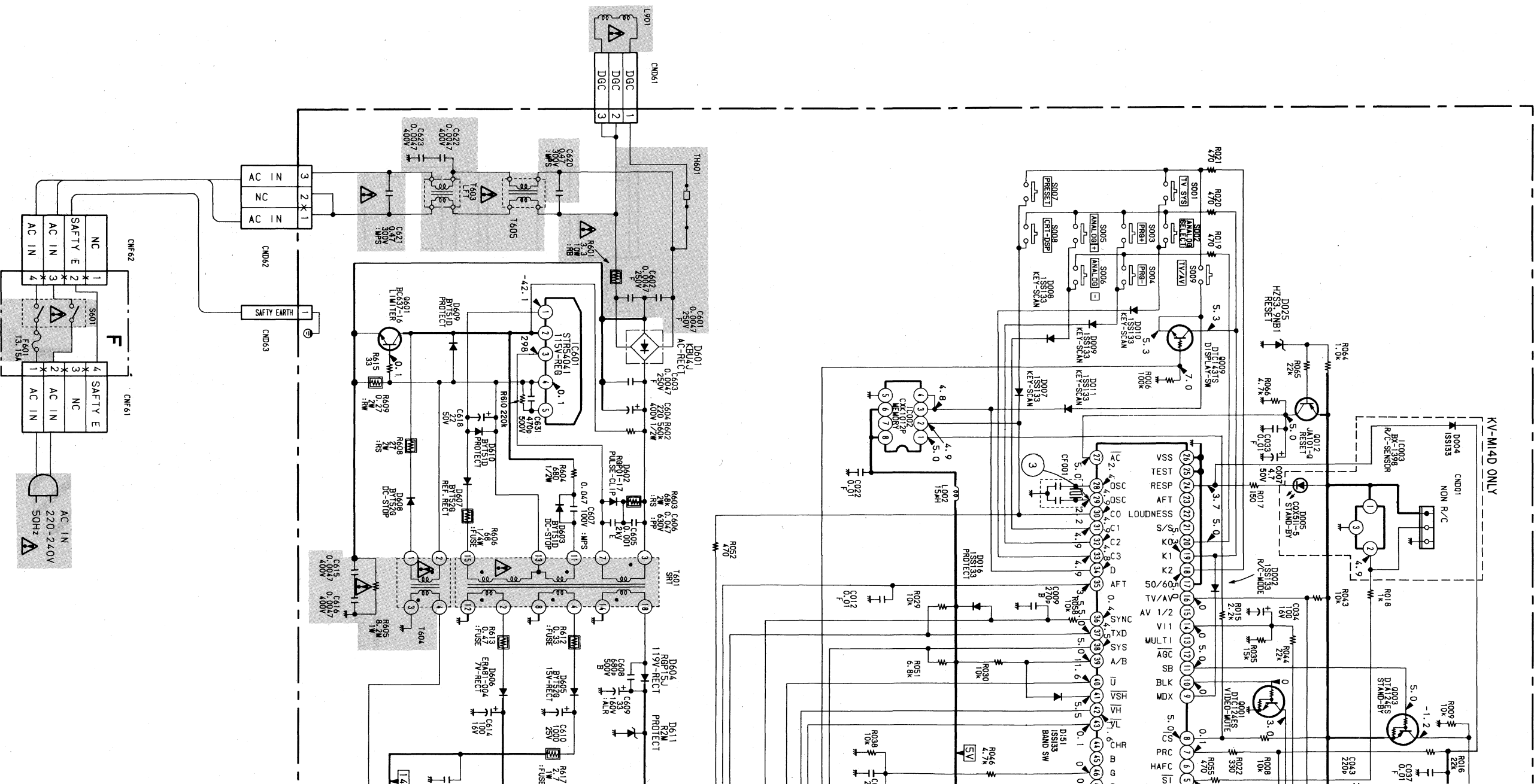
3

4

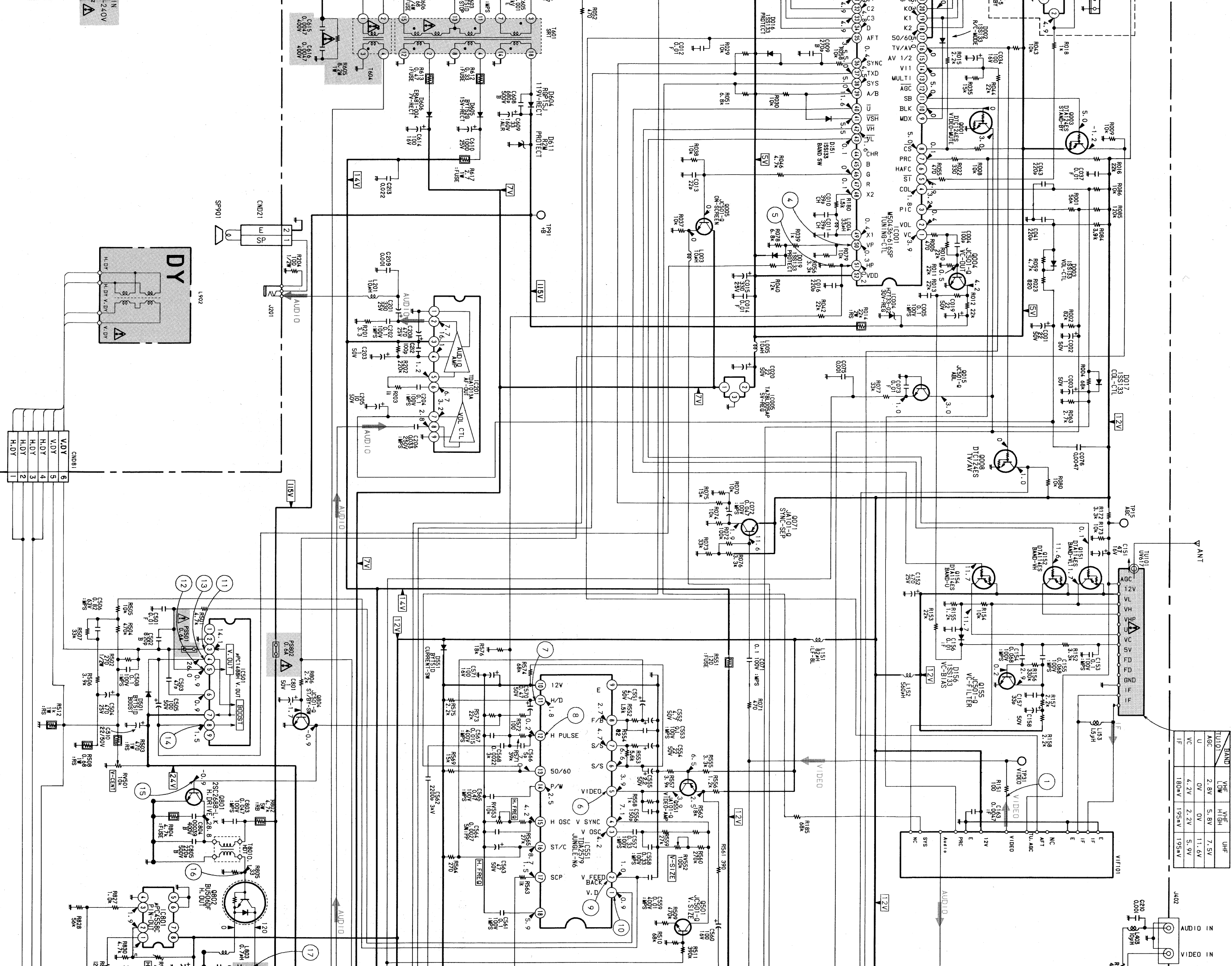
5

6

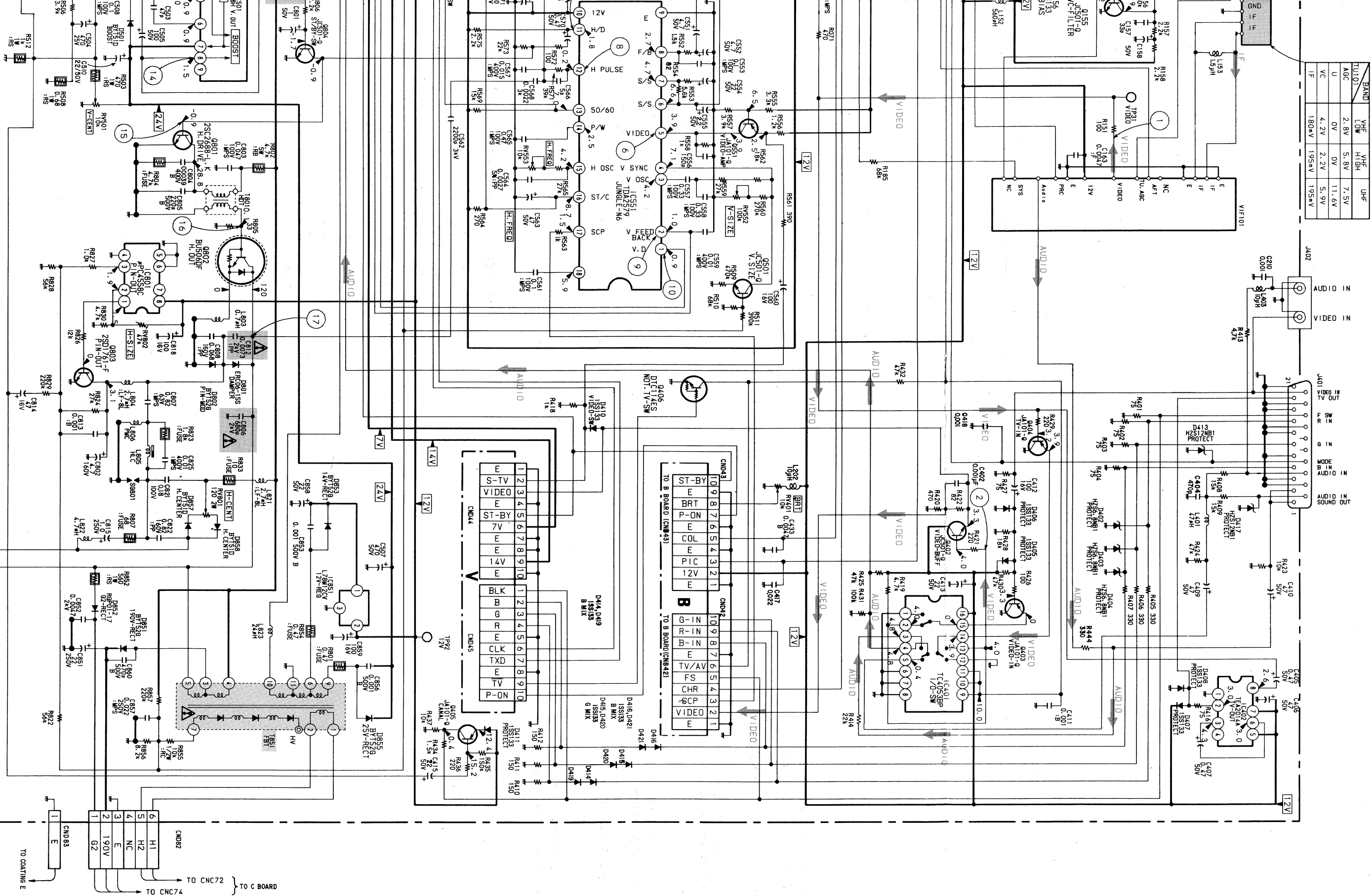
7



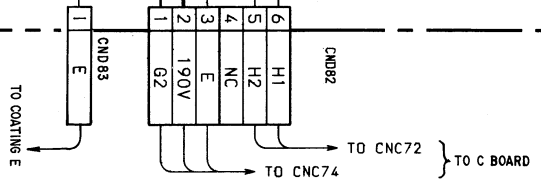
BAND	LOW	HIGH	UHF
TU101	2.8V	5.8V	7.5V
AGC	0V	0V	11.6V
VC	4.2V	2.2V	5.9V
IF	180mV	195mV	195mV



BAND	LOW	HIGH	UHF
TU01	2.8V	5.8V	7.5V
ABC	0V	0V	11.6V
U	4.2V	2.2V	5.9V
VC	180mV	195mV	195mV



**D** (SYSTEM CONTROL, AUDIO/VIDEO OUT, MEMORY, H/V OUT, TUNER, LINE RECT, PWM REG.)

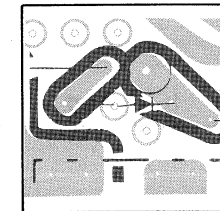




SYSTEM CONTROL, AUDIO/VIDEO OUT,  
MEMORY, H/V OUT, TUNER,  
LINE RECT, PWM REG,

D

D



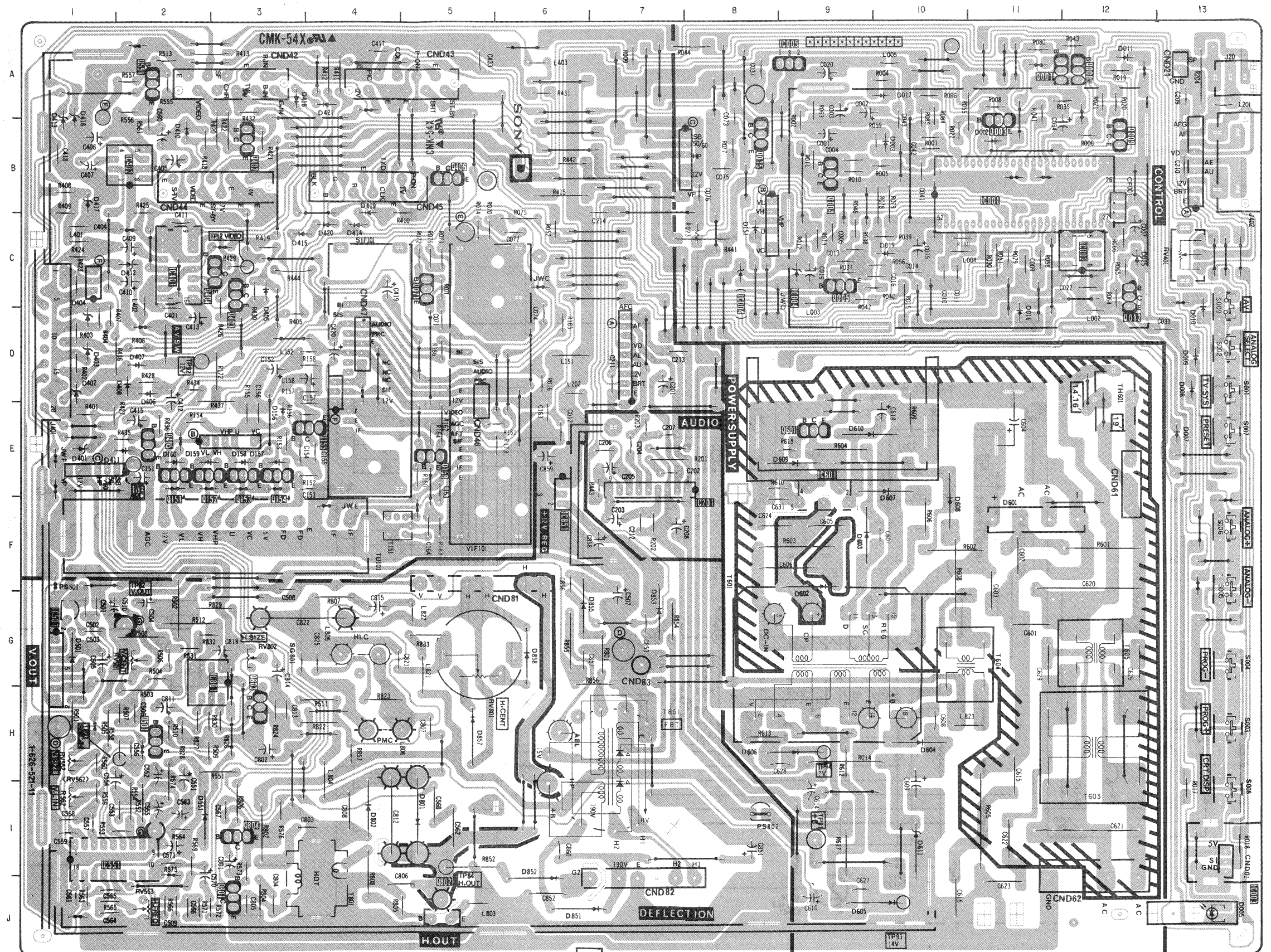
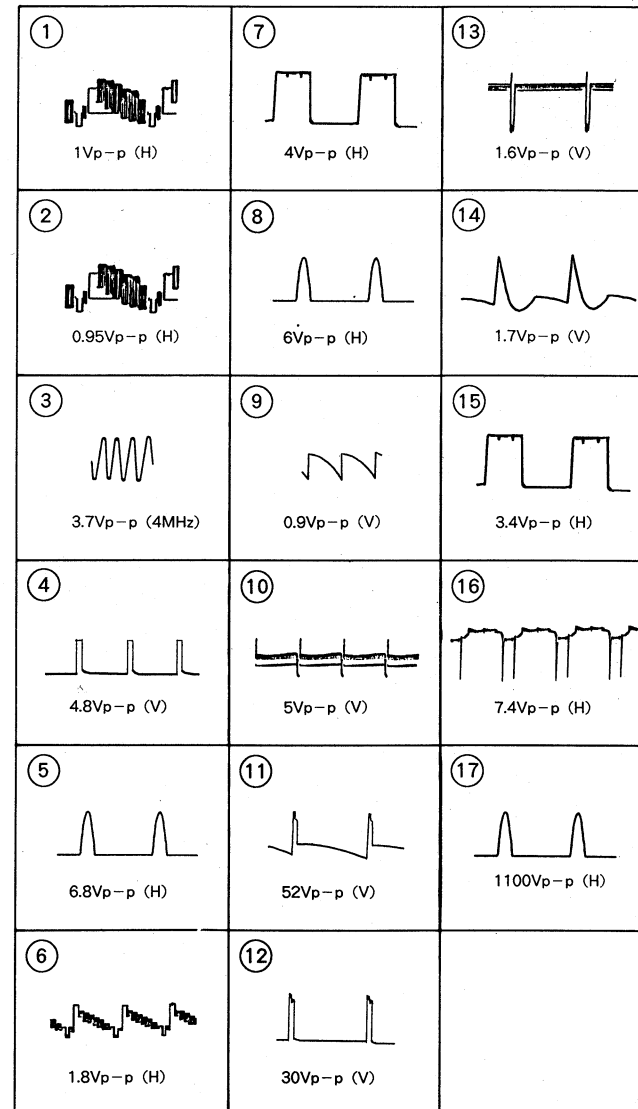
**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

### 5-3. PRINTED WIRING BOARDS (1)

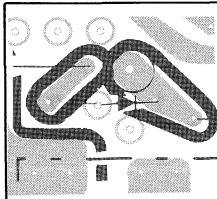
— D Board —

- **D BOARD WAVEFORM**

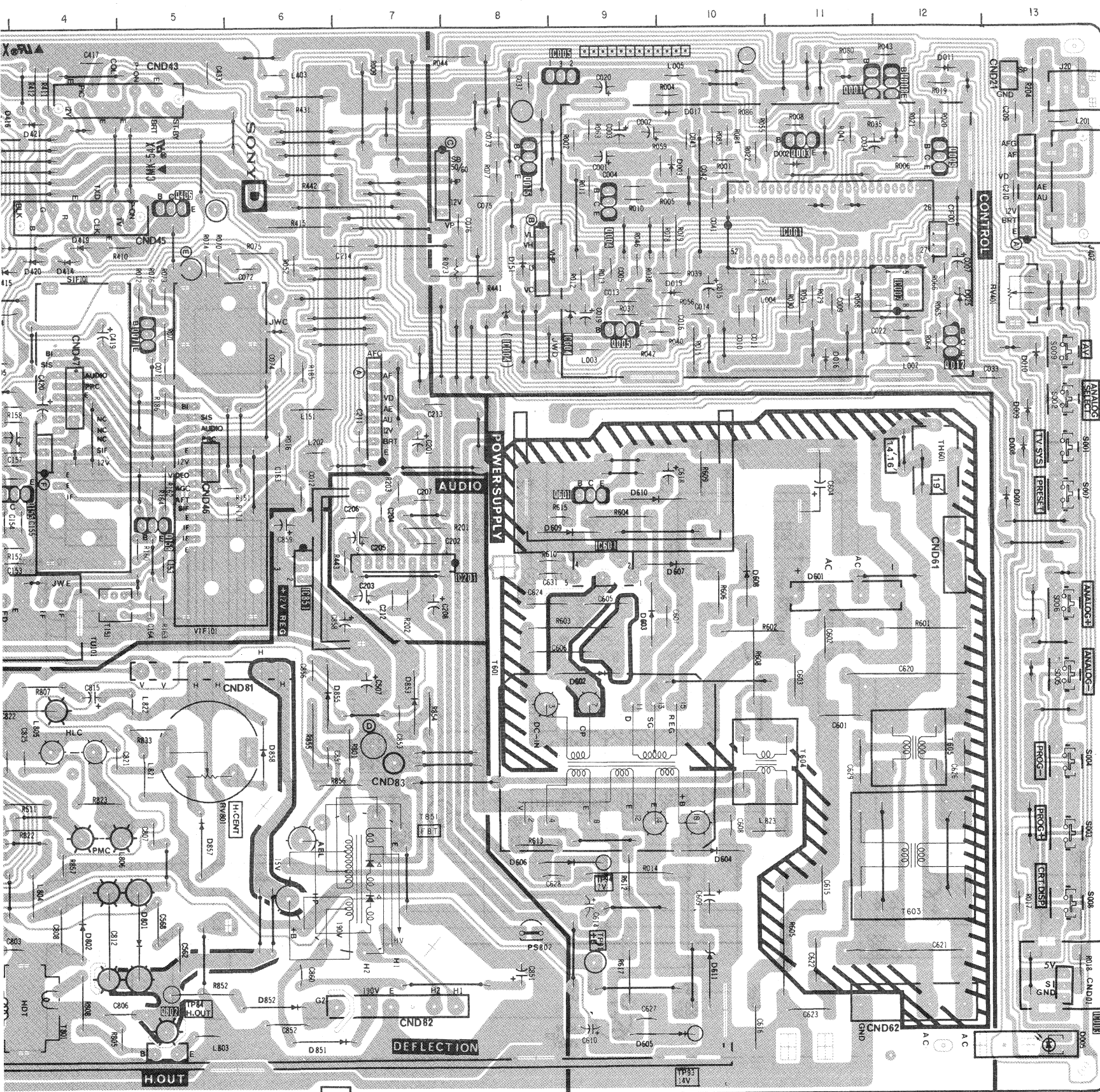


IC001		
IC002		
IC003		
IC005		
IC201		
IC401		
IC402		
IC501		
IC551		
IC601		
IC801		
IC851		
	TRAN	
	Q001	
	Q003	
	Q004	
	Q005	
	Q008	
	Q009	
	Q012	
	Q015	
	Q071	
	Q151	
	Q152	
	Q153	
	Q154	
	Q155	
	Q158	
	Q402	
	Q403	
	Q404	
	Q405	
	Q406	
	Q501	
	Q551	
	Q601	
	Q801	
	Q802	
	Q803	
	Q804	
		D
	D004	
	D005	
	D007	
	D008	
	D009	
	D010	
	D011	
	D016	



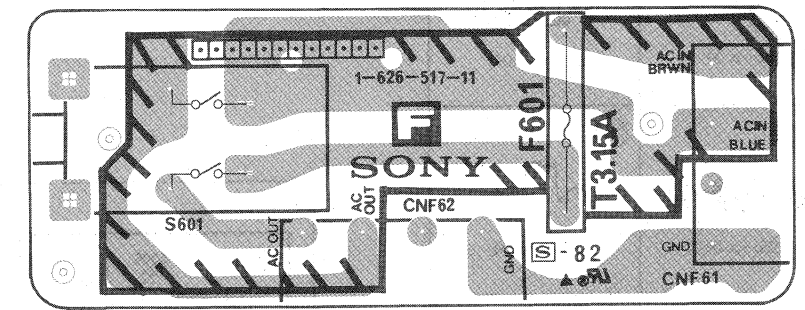


**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

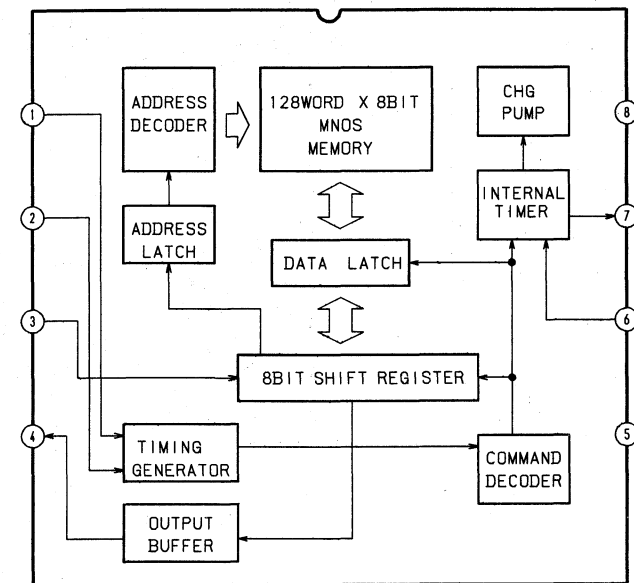


IC			
IC001	B-11	D017	B-9
IC002	C-12	D019	C-10
IC003	I-13	D025	C-12
IC005	A-9	D041	B-10
IC201	E-7	D151	C-8
		D156	E-3
IC401	C-2	D401	E-1
IC402	B-2	D402	D-1
IC501	G-1	D403	D-1
IC551	I-2	D404	D-1
IC601	F-9	D405	C-3
		D406	D-2
IC801	G-2	D407	D-2
IC851	F-6	D408	D-2
		D409	B-2
TRANSISTOR			
Q001	A-11	D410	B-2
Q003	B-11	D411	E-2
Q004	B-9	D412	C-2
Q005	C-9	D413	B-1
Q008	A-12	D501	G-1
Q009	B-12	D551	I-2
Q012	D-12	D601	D-11
Q015	B-8	D602	F-9
Q071	C-5	D603	F-10
Q151	E-2	D604	H-10
Q152	E-2	D605	I-9
Q153	E-3	D606	H-9
Q154	E-3	D607	E-10
Q155	E-4	D608	G-11
Q158	E-5	D609	E-9
Q402	B-3	D610	E-10
Q403	C-3	D801	I-5
Q404	C-3	D802	I-4
Q405	E-2	D851	J-6
Q406	B-5	D852	J-6
Q501	H-2	D853	G-7
Q551	A-2	D854	F-7
Q601	E-8	D855	G-6
Q801	J-3	D857	H-5
Q802	J-5	D858	G-6
Q803	H-3	VARIABLE RESISTOR	
Q804	I-3	RV501	G-2
		RV552	H-1
		RV553	J-2
		RV562	I-1
		RV801	G-5
		RV802	G-3
DIODE			
D004	C-9		
D005	J-13		
D007	E-13		
D008	D-13		
D009	D-13		
D010	D-13		
D011	A-12		
D016	D-11		

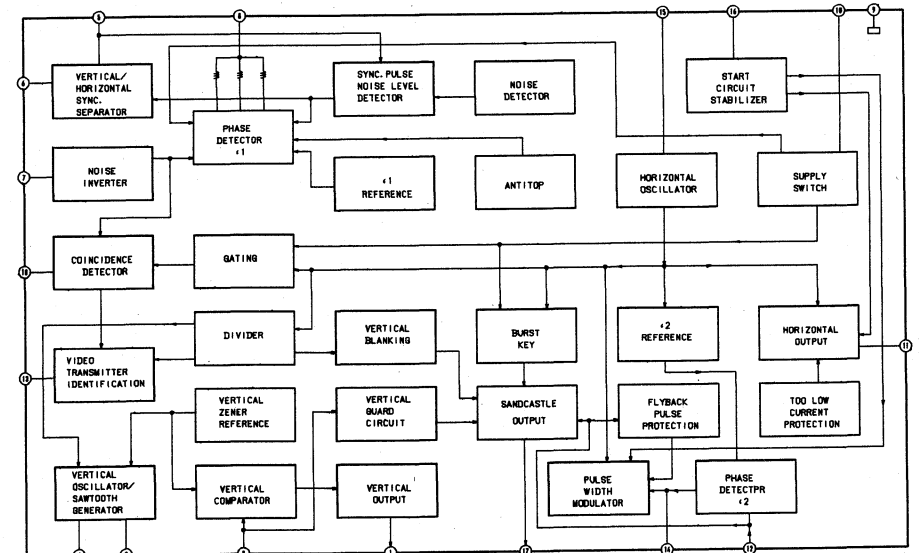
— F Board —



D BOARD IC002 CXK1012P

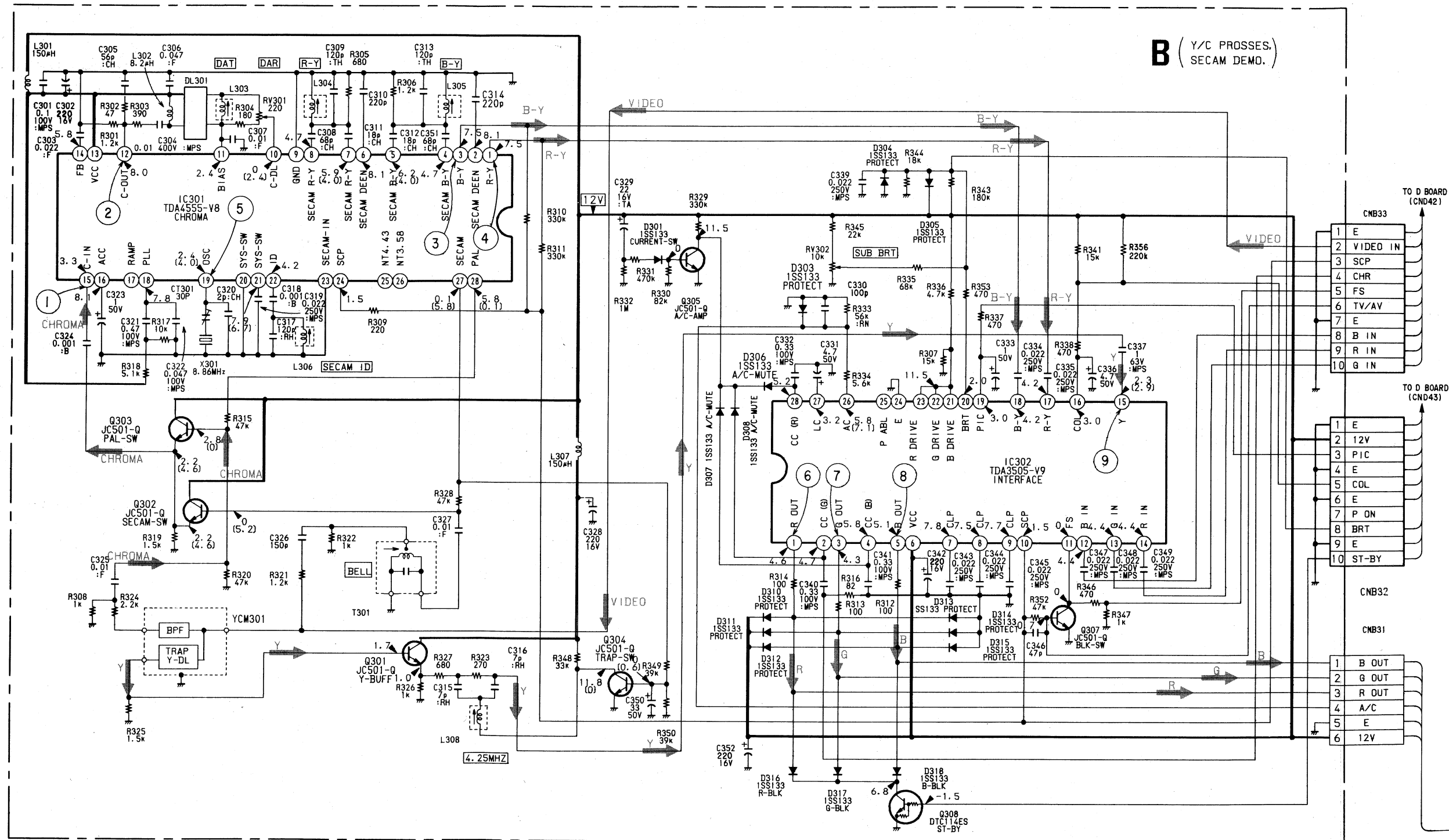
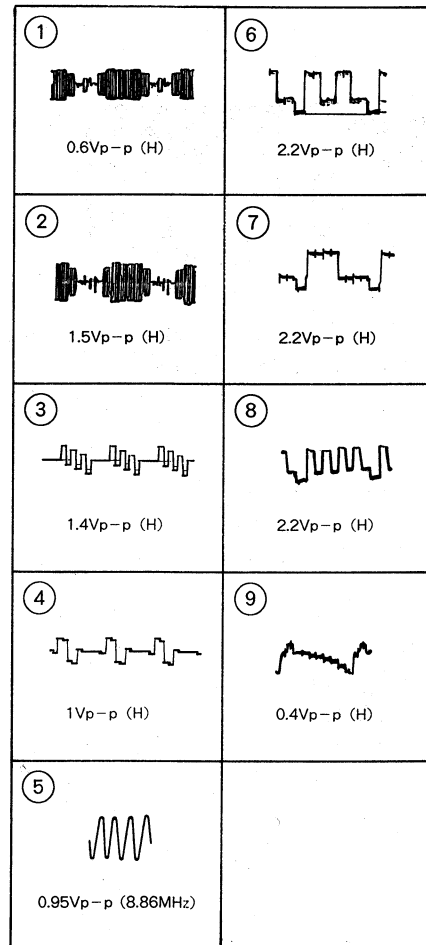


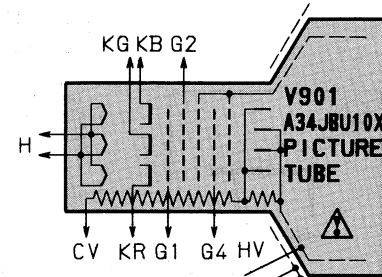
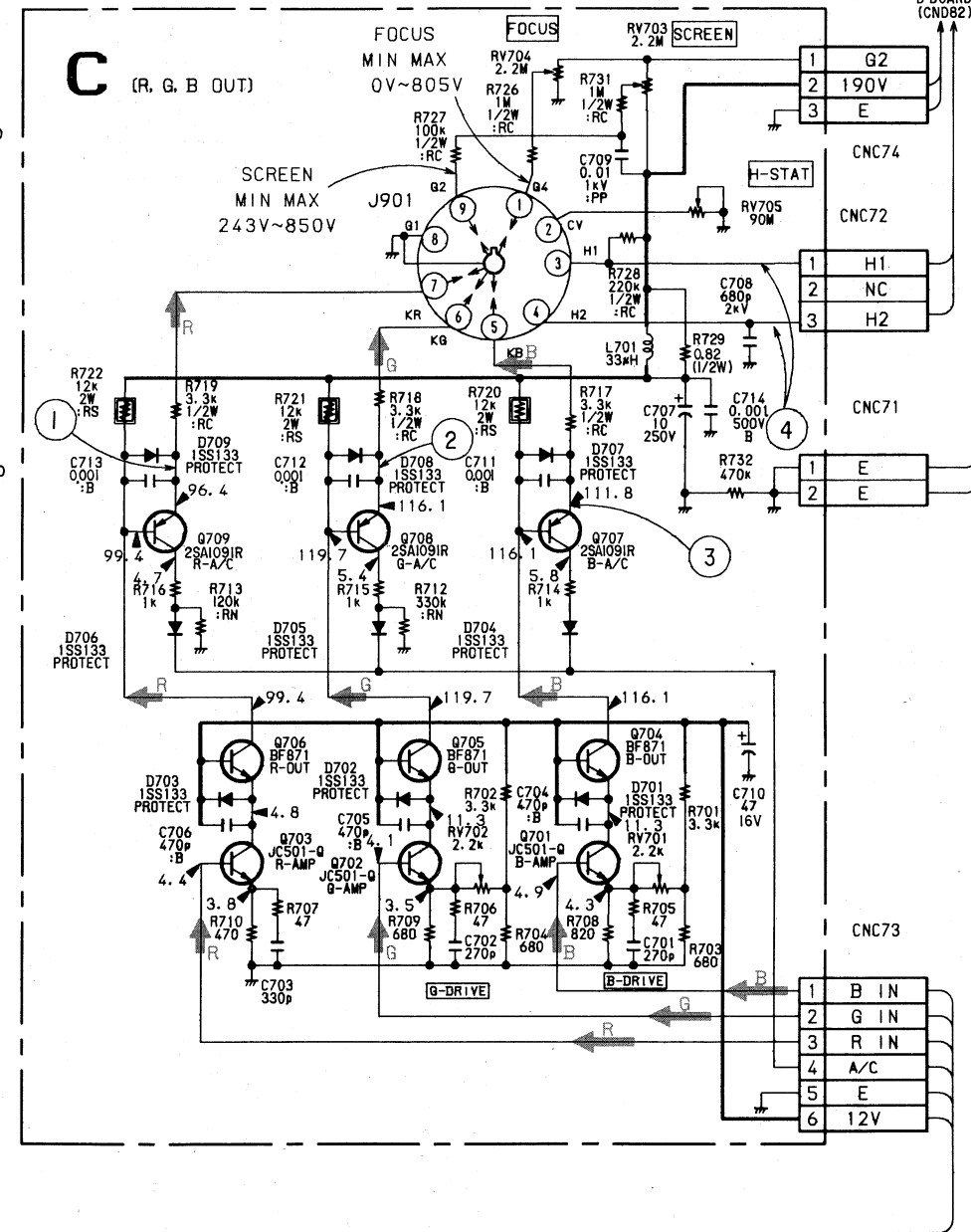
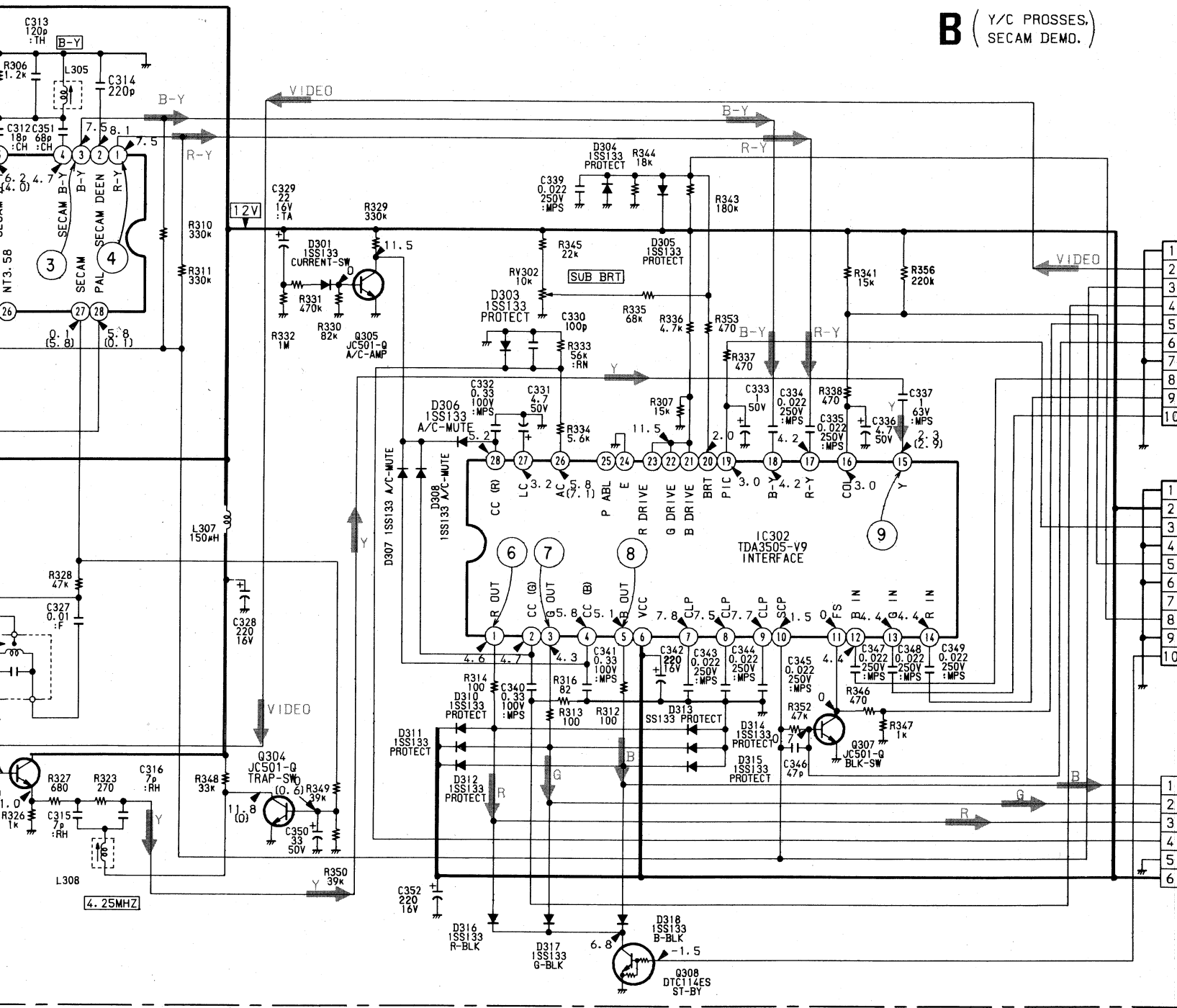
D BOARD IC551 TDA2579



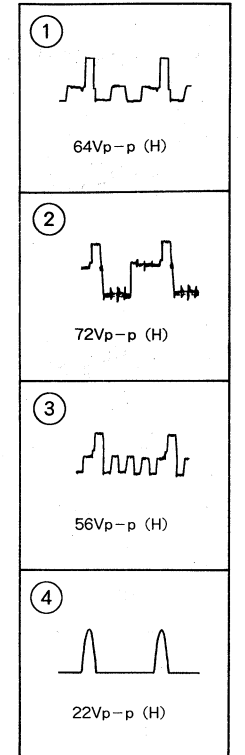
## 5-4. SCHEMATIC DIAGRAMS (2)

## B BOARD WAVEFORM





C BOARD WAVEFORM





[ Y/C PROSSES,  
SECAM DEMO, ]

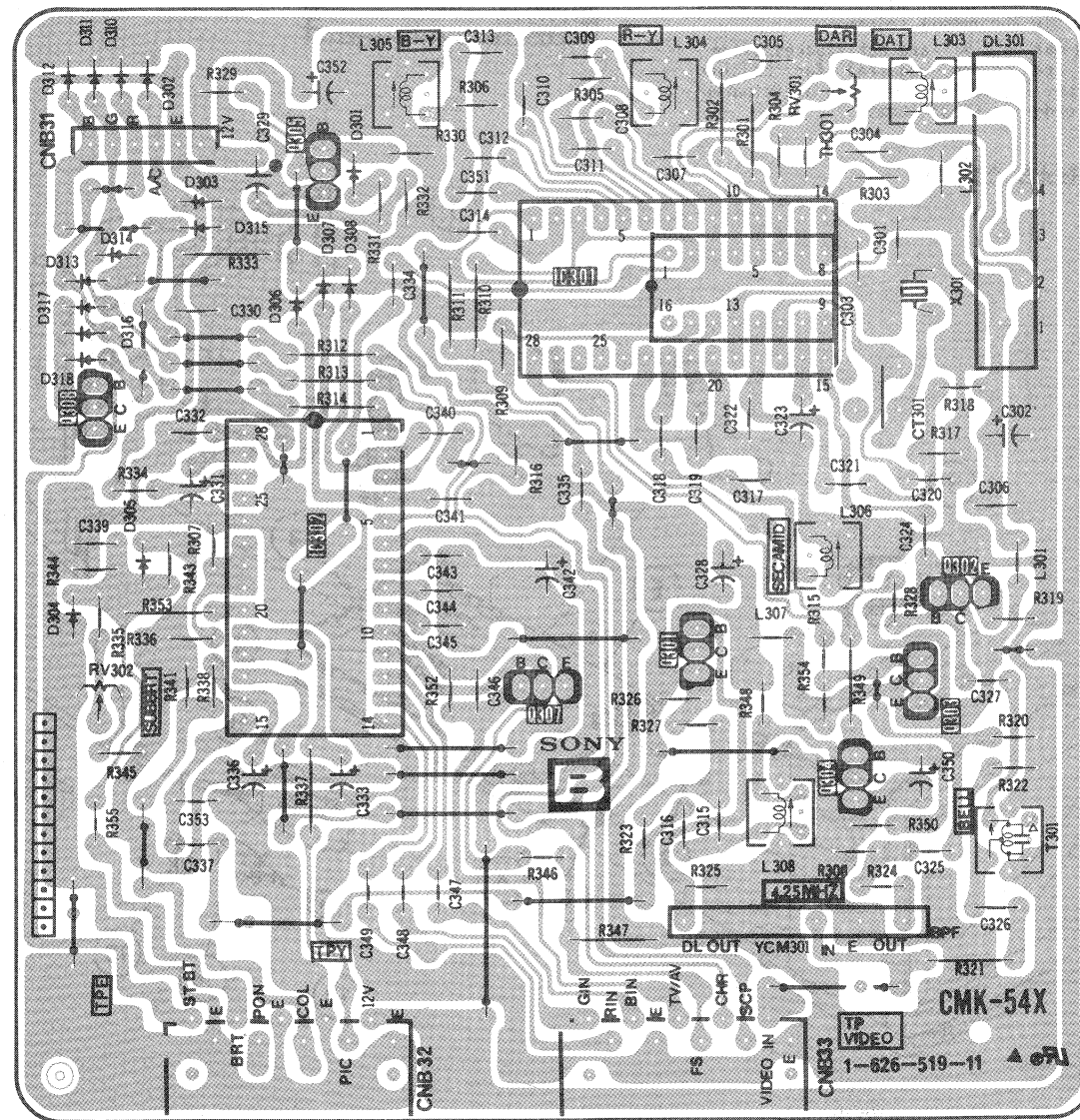
B

C

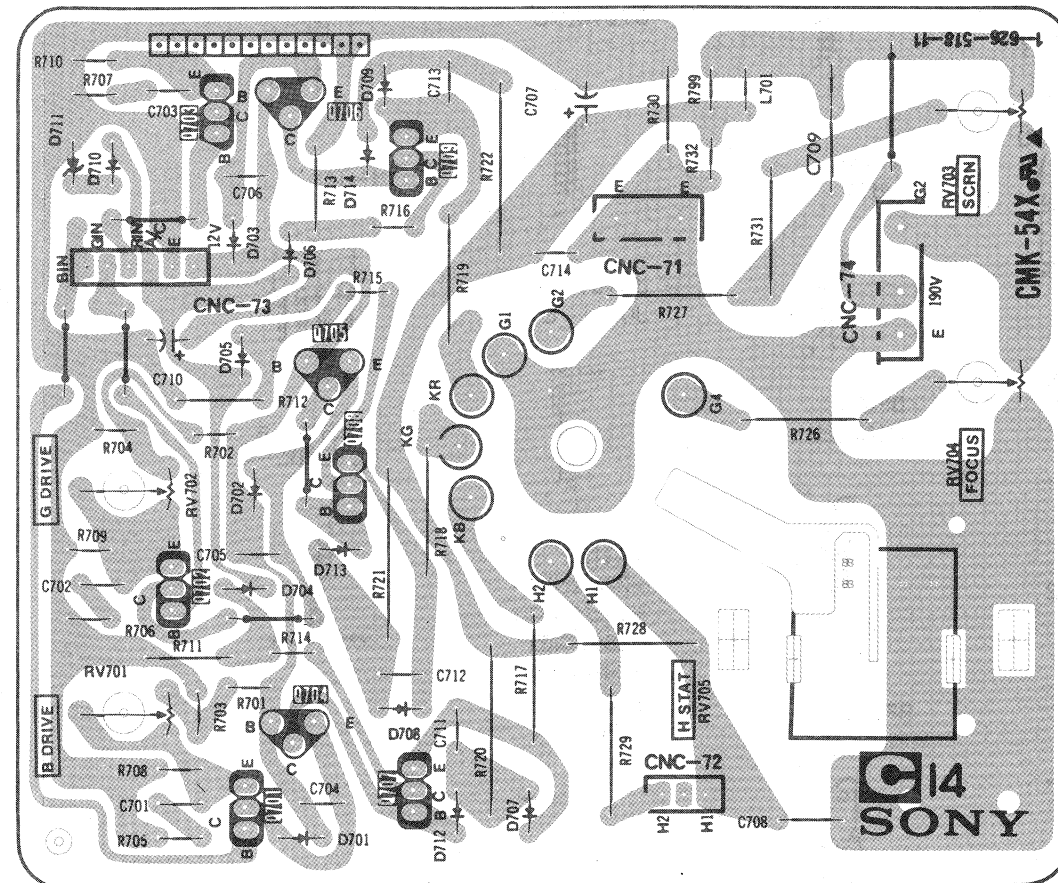
[ R, G, B OUT ]

## 5.5. PRINTED WIRING BOARDS (2)

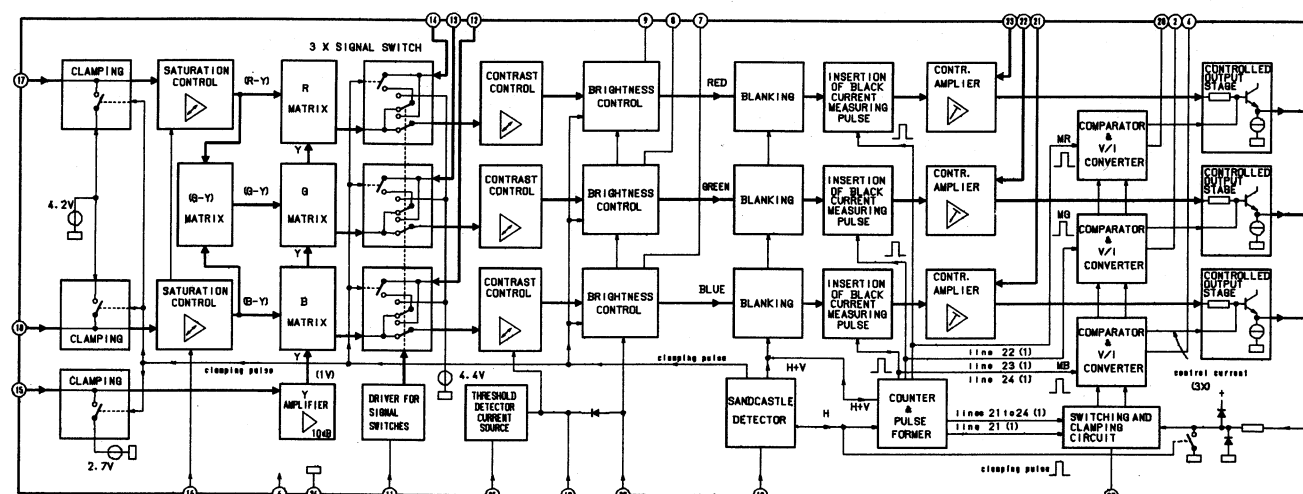
- B Board -



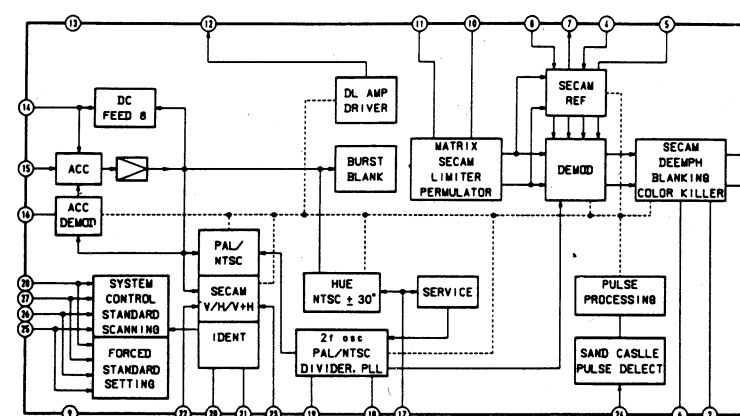
- C Board -



B BOARD IC302 TDA3505-V9



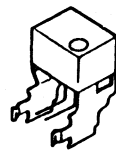
B BOARD IC301 TDA4555-V8



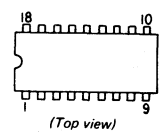


## 5-6. SEMICONDUCTORS

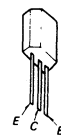
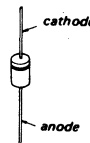
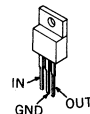
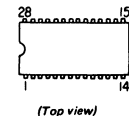
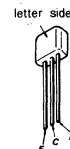
BX-1398



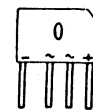
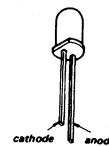
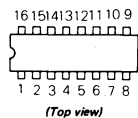
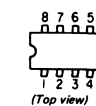
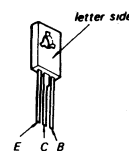
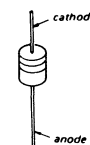
TDA2579-N7



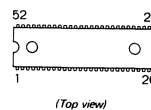
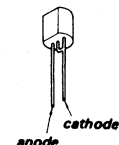
BC637-16

DTA114ES  
DTA124ES  
DTC114ES  
DTC124ES  
DTC143TSERC06-15S  
R2ML78M05CX  
L78M12CVTDA3505-V9  
TDA4555-V8BF199  
BF871JA101-Q  
JC501-Q

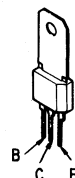
KBU4J

CQX51L-5  
CQY24BL-4MC14053BCP  
TC4053BPCXK1012P  
TEA2014A  
μPC4558CBF421  
2SC26881SS133  
HZS3.9NB1  
HZS5.6NB1  
HZS6.8NB1  
HZS9.1NB1  
HZS9.1NB3  
HZS12NB1

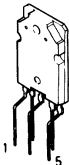
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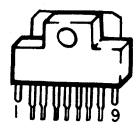
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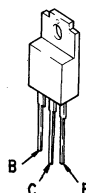
STR54041



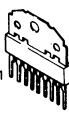
μPC1488H



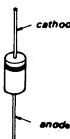
BU506DF



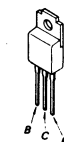
TDA1013A



2SA1091

BYD33G  
BYT51D  
BYT52G  
ERA81-004  
GP08D  
RGP01-17  
RGP10G  
RGP15J

2SD1761-F



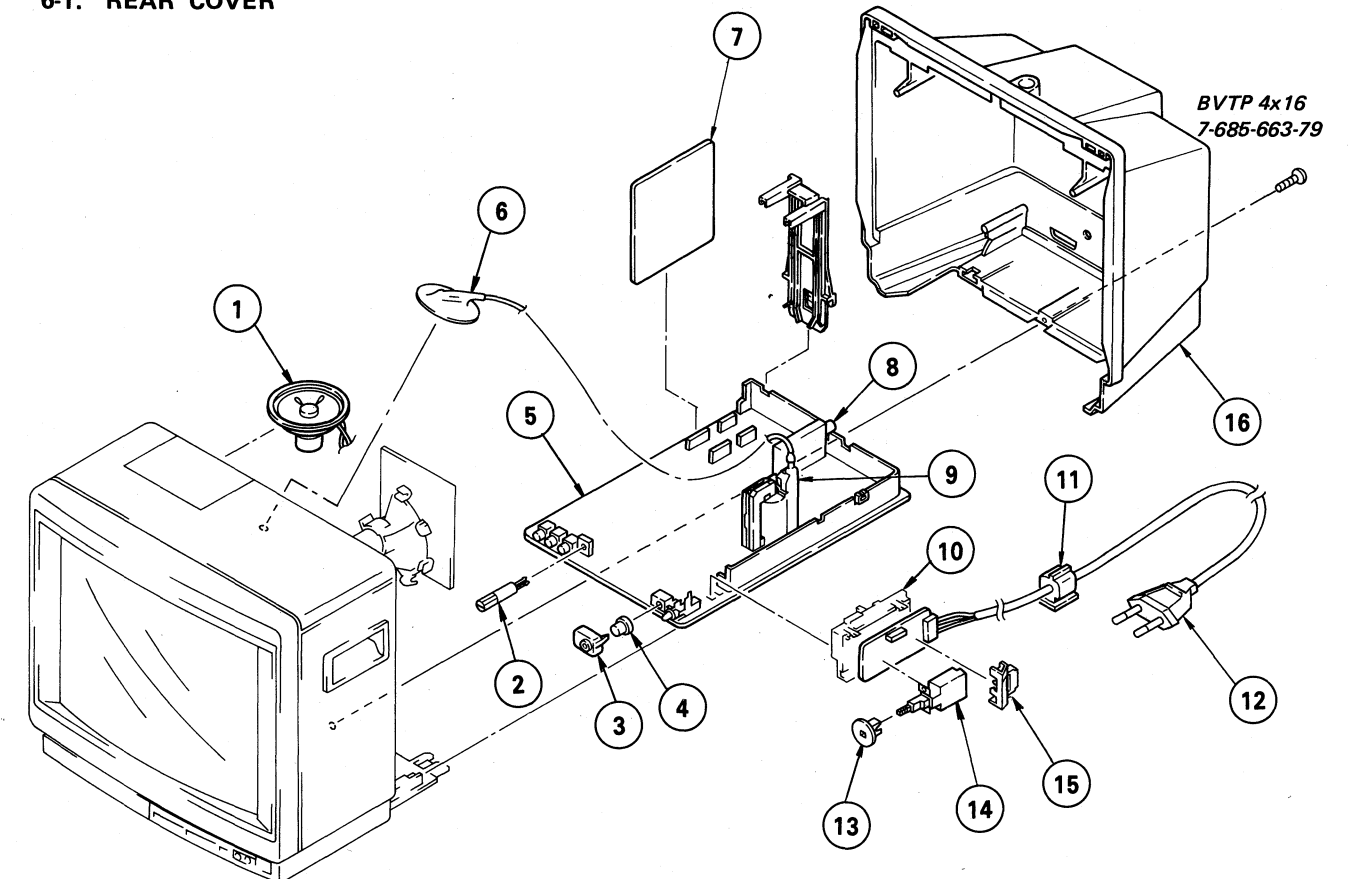
## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 6  
EXPLODED VIEWS

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

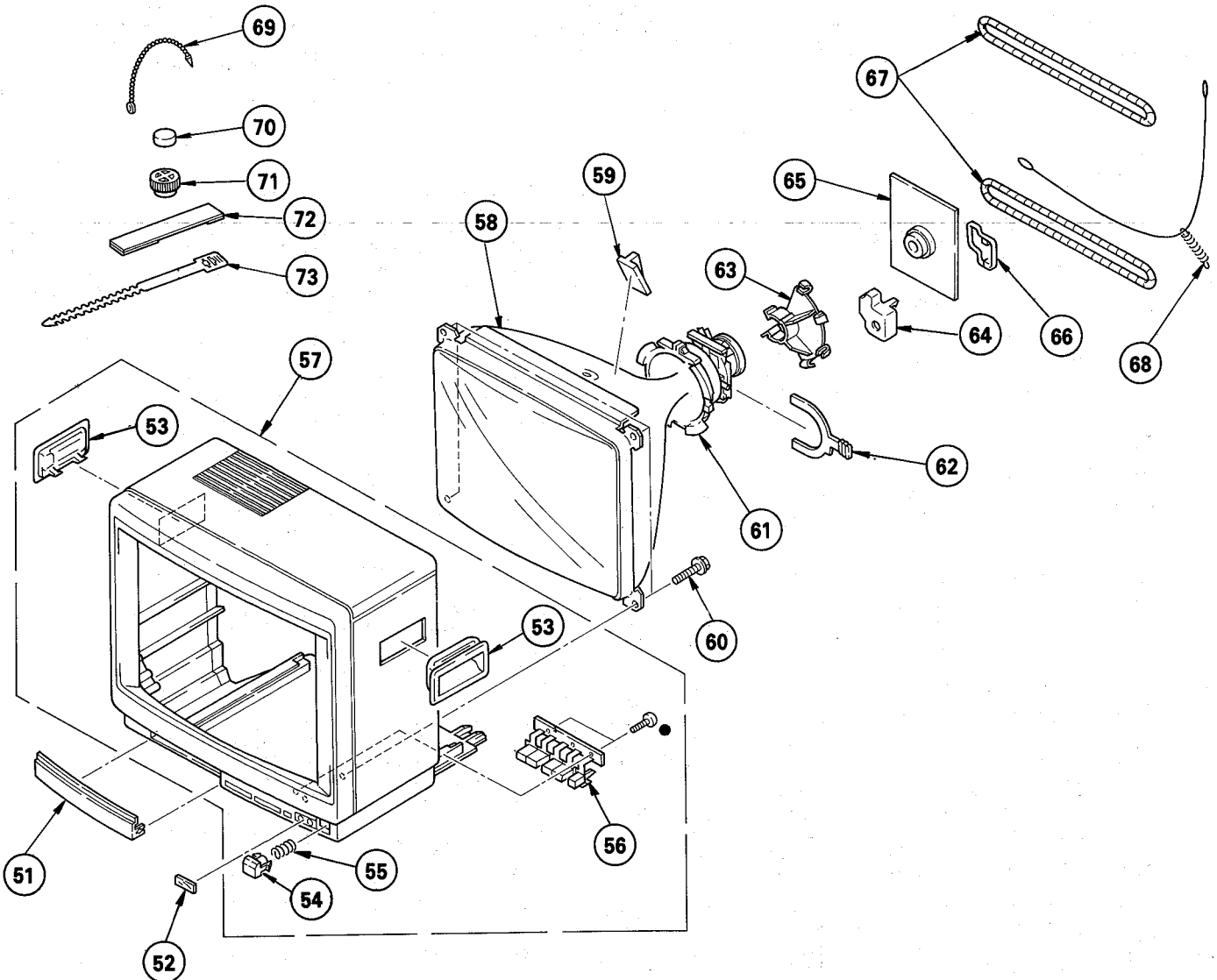
## 6-1. REAR COVER



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	1-503-767-11	SPEAKER (8CM CONE TYPE)		10	*1-626-517-11	F BOARD	
2	4-389-302-01	KNOB, VOLUME		11	$\Delta$ 4-022-115-01	HOLDER, AC CORD	
3	*4-388-955-01	BRACKET (B), LIGHT GUIDE		12	$\Delta$ 1-559-346-11	CORD, POWER (WITH CONNECTOR)	
4	*4-374-987-01	GUIDE, LIGHT		13	4-386-611-01	COVER, SWITCH	
5	*A-1345-775-A	D BOARD, COMPLETE (KV-M14D ONLY)		14	$\Delta$ 1-571-433-11	SWITCH, PUSH (AC POWER)	
	*A-1345-787-A	D BOARD, COMPLETE (KV-P14D ONLY)		15	*4-386-620-01	COVER, POWER	
7	*A-1135-501-A	B BOARD, COMPLETE		16	4-389-322-01	COVER, REAR (FOR BLACK)	
8	$\Delta$ 1-463-881-11	TUNER, ET (UV-617)			4-389-322-11	COVER, REAR (FOR WHITE) (KV-M14D ONLY)	
9	$\Delta$ 1-439-432-11	TRANSFORMER ASSY, FLYBACK					

## 6-2. BEZEL

• BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4389-301-1	DOOR ASSY (FOR BLACK)		59	3-703-961-01	SPACER, DY	
	X-4389-301-3	DOOR ASSY (FOR WHITE)(KV-M14D ONLY)		60	4-365-808-00	SCREW (5), TAPPING	
52	4-389-310-01	WINDOW (M), ORNAMENTAL (KV-M14D ONLY)		61	△ 1-451-249-31	DEFLECTION YOKE (SY-125B)	
	4-389-304-01	WINDOW (P), ORNAMENTAL (KV-P14D ONLY)		62	1-452-277-00	MAGNET, BMC	
53	4-389-320-01	HANDLE (FOR BLACK)		63	*4-385-422-01	HOLDER, LEAD	
	4-389-320-11	HANDLE (FOR WHITE)(KV-M14D ONLY)		64	*4-374-912-01	COVER (MAIN), CV VOL	
54	4-389-312-01	BUTTON, POWER (FOR BLACK)		65	*A-1330-868-A	C BOARD, COMPLETE	
	4-389-312-11	BUTTON, POWER (FOR WHITE)(KV-M14D ONLY)		66	*4-374-913-01	COVER (REAR LID), CV VOL	
55	4-389-306-01	SPRING, COMPRESSION		67	△ 1-426-145-21	COIL, DEGAUSSING	
56	4-389-317-01	BUTTON, MULTI (FOR BLACK)		68	4-369-318-00	SPRING, TENSION	
	4-389-317-11	BUTTON, MULTI (FOR WHITE)(KV-M14D ONLY)		69	4-308-870-00	CLIP, LEAD WIRE	
57	X-4389-305-2	BEZEL ASSY (FOR BLACK)	53-56	70	1-452-032-00	MAGNET, DISK; 10MM φ	
	X-4389-305-3	BEZEL ASSY (FOR WHITE)	53-56	71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
		(KV-M14D ONLY)		72	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
58	△ 8-735-555-05	PICTURE TUBE (A34JBU10X)		73	3-701-007-00	BAND, BINDING	


The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

## SECTION 7

### ELECTRICAL PARTS LIST

# B

NOTE:

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu F$ , PF :  $\mu\mu F$

COILS

• MMH : mH, UH :  $\mu$ H

Note: In this parts list, the mounting diagram is for a different product.

Therefore, an excess of parts is listed.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*A-1135-501-A	B BOARD, COMPLETE *****			C350	1-124-917-11	ELECT 33MF 20%	50V
				C351	1-101-888-00	CERAMIC 68PF 5%	50V
				C352	1-124-120-11	ELECT 220MF 20%	16V
				C353	1-102-959-00	CERAMIC 22PF 10%	50V
	CAPACITOR				CONNECTOR		
C301	1-110-175-81	MYLAR 0.1MF	10% 100V	CNB31	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
C302	1-124-120-11	ELECT 220MF	20% 16V	CNB32	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
C303	1-101-005-00	CERAMIC 0.022MF	50V	CNB33	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
C304	1-110-190-81	MYLAR 0.01MF	10% 400V				
C305	1-101-884-00	CERAMIC 56PF	5% 50V				
C306	1-101-006-00	CERAMIC 0.047MF	50V		TRIMMER		
C307	1-101-004-00	CERAMIC 0.01MF	50V	CT301	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)	
C308	1-101-888-00	CERAMIC 68PF	5% 50V				
C309	1-102-735-00	CERAMIC 120PF	5% 50V		DIODE		
C310	1-102-978-00	CERAMIC 220PF	5% 50V	D301	8-719-911-19	DIODE 1SS119	
C311	1-102-953-00	CERAMIC 18PF	5% 50V	D303	8-719-911-19	DIODE 1SS119	
C312	1-102-953-00	CERAMIC 18PF	5% 50V	D304	8-719-911-19	DIODE 1SS119	
C313	1-102-735-00	CERAMIC 120PF	5% 50V	D305	8-719-911-19	DIODE 1SS119	
C314	1-102-978-00	CERAMIC 220PF	5% 50V	D306	8-719-911-19	DIODE 1SS119	
C315	1-102-662-00	CERAMIC 7PF	0.5PF 50V	D307	8-719-911-19	DIODE 1SS119	
C316	1-102-662-00	CERAMIC 7PF	0.5PF 50V	D308	8-719-911-19	DIODE 1SS119	
C317	1-102-679-00	CERAMIC 120PF	5% 50V	D310	8-719-911-19	DIODE 1SS119	
C318	1-102-074-00	CERAMIC 0.001MF	10% 50V	D311	8-719-911-19	DIODE 1SS119	
C319	1-110-182-81	MYLAR 0.022MF	10% 250V	D312	8-719-911-19	DIODE 1SS119	
C320	1-102-935-00	CERAMIC 2PF	0.25PF 50V	D313	8-719-911-19	DIODE 1SS119	
C321	1-110-329-81	MYLAR 0.47MF	10% 100V	D314	8-719-911-19	DIODE 1SS119	
C322	1-110-171-81	MYLAR 0.047MF	10% 100V	D315	8-719-911-19	DIODE 1SS119	
C323	1-124-499-11	ELECT 1MF	20% 50V	D316	8-719-911-19	DIODE 1SS119	
C324	1-102-074-00	CERAMIC 0.001MF	10% 50V	D317	8-719-911-19	DIODE 1SS119	
C325	1-101-004-00	CERAMIC 0.01MF	50V	D318	8-719-911-19	DIODE 1SS119	
C326	1-101-361-00	CERAMIC 150PF	5% 50V		DELAY LINE		
C327	1-101-004-00	CERAMIC 0.01MF	50V	DL301	1-415-187-13	DELAY LINE	
C328	1-124-120-11	ELECT 220MF	20% 16V		IC		
C329	1-131-373-00	TANTALUM 22MF	10% 16V	IC301	8-759-947-20	IC TDA4555-V8	
C330	1-102-973-00	CERAMIC 100PF	5% 50V	IC302	8-759-947-19	IC TDA3505-V9	
C331	1-124-927-11	ELECT 4.7MF	20% 50V		COIL		
C332	1-110-327-81	MYLAR 0.33MF	10% 100V	L301	1-408-423-00	INDUCTOR 150UH	
C333	1-124-499-11	ELECT 1MF	20% 50V	L302	1-408-408-00	INDUCTOR 8.2UH	
C334	1-110-182-81	MYLAR 0.022MF	10% 250V	L303	1-404-539-11	COIL	
C335	1-110-182-81	MYLAR 0.022MF	10% 250V	L304	1-404-554-11	COIL	
C336	1-124-927-11	ELECT 4.7MF	20% 50V	L305	1-404-554-11	COIL	
C337	1-110-333-81	MYLAR 1MF	10% 63V	L306	1-404-554-11	COIL	
C339	1-110-182-81	MYLAR 0.022MF	10% 250V	L307	1-408-423-00	INDUCTOR 150UH	
C340	1-110-327-81	MYLAR 0.33MF	10% 100V	L308	1-404-495-00	COIL	
C341	1-110-327-81	MYLAR 0.33MF	10% 100V				
C342	1-124-120-11	ELECT 220MF	20% 16V				
C343	1-110-182-81	MYLAR 0.022MF	10% 250V				
C344	1-110-182-81	MYLAR 0.022MF	10% 250V				
C345	1-110-182-81	MYLAR 0.022MF	10% 250V				
C346	1-101-880-00	CERAMIC 47PF	5% 50V				
C347	1-110-182-81	MYLAR 0.022MF	10% 250V				
C348	1-110-182-81	MYLAR 0.022MF	10% 250V				
C349	1-110-182-81	MYLAR 0.022MF	10% 250V				

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

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**B** **F** **C**

Ref.No.	Part No.	Description
<u>TRANSISTOR</u>		
Q301	8-729-178-54	TRANSISTOR 2SC2785
Q302	8-729-178-54	TRANSISTOR 2SC2785
Q303	8-729-178-54	TRANSISTOR 2SC2785
Q304	8-729-178-54	TRANSISTOR 2SC2785
Q305	8-729-178-54	TRANSISTOR 2SC2785
Q307	8-729-178-54	TRANSISTOR 2SC2785
Q308	8-729-900-80	TRANSISTOR DTC114ES

<u>RESISTOR</u>					
R301	1-249-418-11	CARBON	1.2K	5%	1/4W
R302	1-249-401-11	CARBON	47	5%	1/4W
R303	1-249-412-11	CARBON	390	5%	1/4W
R304	1-249-408-11	CARBON	180	5%	1/4W
R305	1-249-416-11	CARBON	820	5%	1/4W
R306	1-249-419-11	CARBON	1.5K	5%	1/4W
R307	1-249-431-11	CARBON	15K	5%	1/4W
R308	1-249-417-11	CARBON	1K	5%	1/4W
R309	1-249-409-11	CARBON	220	5%	1/4W
R310	1-247-891-00	CARBON	330K	5%	1/4W
R311	1-247-891-00	CARBON	330K	5%	1/4W
R312	1-249-405-11	CARBON	100	5%	1/4W
R313	1-249-405-11	CARBON	100	5%	1/4W
R314	1-249-405-11	CARBON	100	5%	1/4W
R315	1-249-437-11	CARBON	47K	5%	1/4W
R316	1-249-404-00	CARBON	82	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-247-848-11	CARBON	5.1K	5%	1/4W
R319	1-249-419-11	CARBON	1.5K	5%	1/4W
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-418-11	CARBON	1.2K	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-410-11	CARBON	270	5%	1/4W
R324	1-249-421-11	CARBON	2.2K	5%	1/4W
R325	1-249-419-11	CARBON	1.5K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-249-415-11	CARBON	680	5%	1/4W
R328	1-249-437-11	CARBON	47K	5%	1/4W
R329	1-247-891-00	CARBON	330K	5%	1/4W
R330	1-249-440-11	CARBON	82K	5%	1/4W
R331	1-247-895-00	CARBON	470K	5%	1/4W
R332	1-247-903-00	CARBON	1M	5%	1/4W
R333	1-216-963-91	METAL	56K	1%	1/4W
R334	1-249-426-11	CARBON	5.6K	5%	1/4W
R335	1-249-439-11	CARBON	68K	5%	1/4W
R336	1-249-425-11	CARBON	4.7K	5%	1/4W
R337	1-249-413-11	CARBON	470	5%	1/4W
R338	1-249-413-11	CARBON	470	5%	1/4W
R341	1-249-431-11	CARBON	15K	5%	1/4W
R343	1-247-885-00	CARBON	180K	5%	1/4W
R344	1-249-432-11	CARBON	18K	5%	1/4W
R345	1-249-433-11	CARBON	22K	5%	1/4W
R346	1-249-413-11	CARBON	470	5%	1/4W
R347	1-249-417-11	CARBON	1K	5%	1/4W
R348	1-249-435-11	CARBON	33K	5%	1/4W
R349	1-249-436-11	CARBON	39K	5%	1/4W
R350	1-249-436-11	CARBON	39K	5%	1/4W
R352	1-249-437-11	CARBON	47K	5%	1/4W
R353	1-249-413-11	CARBON	470	5%	1/4W
R355	1-247-887-00	CARBON	220K	5%	1/4W

Ref.No.	Part No.	Description	Remark
<u>VARIABLE RESISTOR</u>			
RV301	1-238-009-11	RES, ADJ, CARBON 220	
RV302	1-238-016-11	RES, ADJ, CARBON 10K	
<u>TRANSFORMER</u>			
T301	1-404-584-11	COIL	
<u>CRYSTAL</u>			
X301	1-567-131-00	OSCILLATOR, CRYSTAL	
<u>YC MODULE</u>			
YCM301	1-235-753-21	YC MODULE	
*****			
	*1-626-517-11	F BOARD	*****
<u>CONNECTOR</u>			
CNF61	*1-566-664-11	PIN, CONNECTOR 4P	
CNF62	*1-566-664-11	PIN, CONNECTOR 4P	
<u>FUSE</u>			
F601	$\Delta$ 1-576-016-11	FUSE, TIME-LAG 3.15A/250V	
	1-533-149-00	HOLDER, FUSE; F601	
<u>SWITCH</u>			
S601	$\Delta$ 1-571-433-11	SWITCH, PUSH (AC POWER)	
*****			
	*A-1330-868-A	C BOARD, COMPLETE	*****
	*4-374-912-01	COVER (MAIN), CV VOL	
	*4-374-913-01	COVER (REAR LID), CV VOL	
<u>CAPACITOR</u>			
C701	1-102-980-00	CERAMIC	270PF 5% 50V
C702	1-102-980-00	CERAMIC	270PF 5% 50V
C703	1-102-820-00	CERAMIC	330PF 5% 50V
C704	1-102-114-00	CERAMIC	470PF 10% 50V
C705	1-102-114-00	CERAMIC	470PF 10% 50V
C706	1-102-114-00	CERAMIC	470PF 10% 50V
C707	1-123-947-00	ELECT	10MF 20% 250V
C708	1-162-116-00	CERAMIC	680PF 10% 2KV
C709	1-136-666-11	FILM	0.01MF 5% 1KV
C710	1-124-477-11	ELECT	47MF 20% 16V
C711	1-102-074-00	CERAMIC	0.001MF 10% 50V
C712	1-102-074-00	CERAMIC	0.001MF 10% 50V
C713	1-102-074-00	CERAMIC	0.001MF 10% 50V
C714	1-162-318-11	CERAMIC	0.001MF 10% 500V
<u>CONNECTOR</u>			
CNC71	*1-508-786-00	2P PLUG (M)	
CNC72	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
CNC73	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
CNC74	*1-508-765-00	3P PLUG (M)	

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Ref.No. Part No. Description

### DIODE

D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119

### JACK

J901	1-526-819-11	SOCKET, PICTURE TUBE
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### COIL

L701	1-408-415-00	INDUCTOR	33UH
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### TRANSISTOR

Q701	8-729-178-54	TRANSISTOR 2SC2785
Q702	8-729-178-54	TRANSISTOR 2SC2785
Q703	8-729-178-54	TRANSISTOR 2SC2785
Q704	8-729-906-70	TRANSISTOR BF871
Q705	8-729-906-70	TRANSISTOR BF871
Q706	8-729-906-70	TRANSISTOR BF871
Q707	8-729-200-17	TRANSISTOR 2SA1091
Q708	8-729-200-17	TRANSISTOR 2SA1091
Q709	8-729-200-17	TRANSISTOR 2SA1091

### RESISTOR

R701	1-249-423-11	CARBON	3.3K	5%	1/4W
R702	1-249-423-11	CARBON	3.3K	5%	1/4W
R703	1-249-415-11	CARBON	680	5%	1/4W
R704	1-249-415-11	CARBON	680	5%	1/4W
R705	1-249-401-11	CARBON	47	5%	1/4W
R706	1-249-401-11	CARBON	47	5%	1/4W
R707	1-249-401-11	CARBON	47	5%	1/4W
R708	1-249-417-11	CARBON	1K	5%	1/4W
R709	1-249-416-11	CARBON	820	5%	1/4W
R710	1-249-413-11	CARBON	470	5%	1/4W
R712	1-247-891-91	CARBON	330K	1%	1/4W
R713	1-247-881-91	CARBON	120K	1%	1/4W
R714	1-249-417-11	CARBON	1K	5%	1/4W
R715	1-249-417-11	CARBON	1K	5%	1/4W
R716	1-249-417-11	CARBON	1K	5%	1/4W
R717	1-202-824-00	SOLID	3.3K	10%	1/2W
R718	1-202-824-00	SOLID	3.3K	10%	1/2W
R719	1-202-824-00	SOLID	3.3K	10%	1/2W
R720	1-218-087-51	METAL OXIDE	12K	5%	2W
R721	1-218-087-51	METAL OXIDE	12K	5%	2W
R722	1-218-087-51	METAL OXIDE	12K	5%	2W
R726	1-202-719-00	SOLID	1M	10%	1/2W
R727	1-202-838-00	SOLID	100K	10%	1/2W
R728	1-202-842-11	SOLID	220K	10%	1/2W
R729	1-207-462-00	WI REWOUND	0.82	10%	1/2W
R731	1-202-719-00	SOLID	1M	10%	1/2W
R732	1-247-895-00	CARBON	470K	5%	1/4W

Remark

Ref.No. Part No.

Description

Remark

### VARIABLE RESISTOR

RV701	1-237-749-11	RES, ADJ, CARBON 2200
RV702	1-237-749-11	RES, ADJ, CARBON 2200
RV703	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M
RV704	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M
RV705	1-230-798-11	RES, ADJ, METAL GLAZE 90M

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\*A-1345-775-A D BOARD, COMPLETE (KV-M14D ONLY)  
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\*A-1345-787-A D BOARD, COMPLETE (KV-P14D ONLY)  
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\*4-341-751-01 PAWL  
\*4-341-752-01 EYELET  
\*4-368-683-01 SPRING


### CAPACITOR

C001	1-124-908-11	ELECT	22MF	20%	50V
C002	1-124-499-11	ELECT	1MF	20%	50V
C003	1-124-499-11	ELECT	1MF	20%	50V
C004	1-102-973-00	CERAMIC	100PF	5%	50V
C005	1-110-175-81	MYLAR	0.1MF	10%	100V
C007	1-124-927-11	ELECT	4.7MF	20%	50V
C009	1-102-111-00	CERAMIC	270PF	10%	50V
C010	1-102-965-00	CERAMIC	39PF	5%	50V
C011	1-102-965-00	CERAMIC	39PF	5%	50V
C012	1-101-004-00	CERAMIC	0.01MF		50V
C013	1-102-959-00	CERAMIC	22PF	5%	50V
C014	1-101-004-00	CERAMIC	0.01MF		50V
C015	1-124-479-11	ELECT	330MF	20%	25V
C016	1-102-978-00	CERAMIC	220PF	5%	50V
C019	1-124-908-11	ELECT	22MF	20%	50V
C020	1-124-908-11	ELECT	22MF	20%	50V
C022	1-101-004-00	CERAMIC	0.01MF		50V
C033	1-101-004-00	CERAMIC	0.01MF		50V
C034	1-126-101-11	ELECT	100MF	20%	16V
C037	1-101-004-00	CERAMIC	0.01MF		50V
C041	1-102-116-00	CERAMIC	680PF	10%	50V
C043	1-102-978-00	CERAMIC	220PF	5%	50V
C071	1-110-175-81	MYLAR	0.1MF	10%	100V
C072	1-110-171-81	MYLAR	0.047MF	10%	100V
C073	1-101-004-00	CERAMIC	0.01MF		50V
C075	1-102-074-00	CERAMIC	0.001MF	10%	50V
C076	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C151	1-124-477-11	ELECT	47MF	20%	16V
C152	1-124-480-11	ELECT	470MF	20%	25V
C153	1-110-175-81	MYLAR	0.1MF	10%	100V
C154	1-110-173-81	MYLAR	0.068MF	10%	100V
C155	1-110-173-81	MYLAR	0.068MF	10%	100V
C156	1-101-004-00	CERAMIC	0.01MF		50V
C157	1-102-963-00	CERAMIC	33PF	5%	50V
C158	1-124-477-11	ELECT	47MF	20%	16V
C163	1-101-003-00	CERAMIC	0.0047MF		50V
C164	1-101-003-00	CERAMIC	0.0047MF		50V
C201	1-124-479-11	ELECT	330MF	20%	25V
C202	1-110-175-81	MYLAR	0.1MF	10%	100V
C203	1-124-038-00	ELECT	1MF	20%	50V
C204	1-110-171-81	MYLAR	0.047MF	10%	100V
C205	1-123-875-11	ELECT	10MF	20%	50V
C206	1-110-184-81	MYLAR	0.033MF	10%	250V
C207	1-110-175-81	MYLAR	0.1MF	10%	100V
C208	1-124-128-00	ELECT	470MF	20%	25V

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
C209	1-102-074-00	CERAMIC	0.001MF	10%	50V	C629	1-102-316-00	CERAMIC	15PF	5%	500V
C210	1-102-074-00	CERAMIC	0.001MF	10%	50V	C631	1-102-228-00	CERAMIC	470PF	10%	500V
C212	1-102-973-00	CERAMIC	100PF	5%	50V	C801	1-124-499-11	ELECT	1MF	20%	50V
C213	1-101-005-00	CERAMIC	0.022MF		50V	C802	1-123-932-00	ELECT	4.7MF	20%	160V
C402	1-102-074-00	CERAMIC	0.001MF	10%	50V	C803	1-110-171-81	MYLAR	0.047MF	10%	100V
C404	1-102-114-00	CERAMIC	470PF	10%	50V						
C405	1-124-902-00	ELECT	0.47MF	20%	50V	C804	1-110-185-81	MYLAR	0.0039MF	10%	400V
C406	1-124-477-11	ELECT	47MF	20%	16V	C805	1-102-244-00	CERAMIC	220PF	10%	500V
C407	1-124-902-00	ELECT	0.47MF	20%	50V	C806	1-162-116-51	CERAMIC	680PF	10%	2KV
C409	1-124-477-11	ELECT	47MF	20%	16V	C807	1-110-332-81	MYLAR	0.82MF	10%	63V
C410	1-124-477-11	ELECT	47MF	20%	16V	C808	1-136-645-11	FILM	0.068MF	10%	160V
C411	1-102-074-00	CERAMIC	0.001MF	10%	50V	C812	1-136-073-11	FILM	0.0073MF	3%	2KV
C412	1-126-101-11	ELECT	100MF	20%	16V	C813	1-102-074-00	CERAMIC	0.001MF	10%	50V
C413	1-124-908-11	ELECT	22MF	20%	50V	C814	1-124-908-11	ELECT	22MF	20%	50V
C415	1-124-908-11	ELECT	22MF	20%	50V	C815	1-123-943-00	ELECT	1MF	20%	250V
C417	1-101-005-00	CERAMIC	0.022MF		50V	C818	1-126-101-11	ELECT	100MF	20%	16V
C418	1-102-074-00	CERAMIC	0.001MF	10%	50V	C821	1-110-178-81	MYLAR	0.18MF	10%	100V
C433	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C822	1-136-629-11	FILM	0.82MF	5%	160V
C501	1-101-004-00	CERAMIC	0.01MF		50V	C825	1-110-190-81	MYLAR	0.01MF	10%	400V
C502	1-102-117-00	CERAMIC	820PF	10%	50V	C851	1-123-948-00	ELECT	22MF	20%	250V
C503	1-101-880-00	CERAMIC	47PF	5%	50V	C852	1-162-114-00	CERAMIC	0.0047MF		2KV
C504	1-124-480-11	ELECT	470MF	20%	25V	C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C505	1-124-122-11	ELECT	100MF	20%	50V	C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C506	1-110-332-81	MYLAR	0.82MF	10%	63V	C857	1-110-182-81	MYLAR	0.022MF	10%	250V
C507	1-124-913-11	ELECT	470MF	20%	50V	C858	1-123-357-00	ELECT	22MF	20%	50V
C508	1-110-175-81	MYLAR	0.1MF	10%	100V	C859	1-126-101-11	ELECT	100MF	20%	16V
C510	1-124-908-11	ELECT	22MF	20%	50V	C860	1-102-228-00	CERAMIC	470PF	10%	500V
C551	1-124-927-11	ELECT	4.7MF	20%	50V						
C552	1-124-927-11	ELECT	4.7MF	20%	50V						
C553	1-110-175-81	MYLAR	0.1MF	10%	100V						
C554	1-124-908-11	ELECT	22MF	20%	50V						
C555	1-124-925-11	ELECT	2.2MF	20%	50V						
C556	1-101-361-00	CERAMIC	150PF	5%	50V						
C557	1-110-327-81	MYLAR	0.33MF	10%	100V						
C558	1-110-327-81	MYLAR	0.33MF	10%	100V						
C559	1-110-185-81	MYLAR	0.0039MF	10%	400V						
C560	1-126-101-11	ELECT	100MF	20%	16V						
C561	1-110-175-81	MYLAR	0.1MF	10%	100V						
C562	1-161-961-00	CERAMIC	0.0022MF	10%	3KV						
C563	1-124-477-11	ELECT	47MF	20%	16V						
C564	1-129-794-00	FILM	0.0033MF	2%	100V						
C565	1-130-785-81	MYLAR	0.47MF	10%	100V						
C566	1-102-942-00	CERAMIC	5PF	1PF	50V						
C567	1-110-192-81	MYLAR	0.015MF	10%	400V						
C568	1-161-961-00	CERAMIC	0.0022MF	10%	3KV						
C570	1-124-902-00	ELECT	0.47MF	20%	50V						
C571	1-126-101-11	ELECT	100MF	20%	16V						
C601	1-161-964-61	CERAMIC	0.0047MF		250V						
C602	1-161-964-61	CERAMIC	0.0047MF		250V						
C603	1-161-964-00	CERAMIC	0.0047MF		250V						
C604	1-125-293-00	ELECT(BLOCK)	220MF		400V						
C605	1-161-731-00	CERAMIC	0.001MF	10%	2KV						
C606	1-136-637-11	FILM	0.047MF	10%	630V						
C607	1-110-171-81	MYLAR	0.047MF	10%	100V						
C608	1-162-116-00	CERAMIC	680PF	10%	2KV						
C609	1-123-024-00	ELECT	33MF		160V						
C610	1-124-557-11	ELECT	1000MF	20%	25V						
C614	1-126-101-11	ELECT	100MF	20%	16V						
C615	1-162-578-51	CERAMIC	0.0047MF	20%	400V						
C616	1-162-578-51	CERAMIC	0.0047MF	20%	400V						
C618	1-124-908-11	ELECT	22MF	20%	50V						
C620	1-136-519-11	FILM	0.47MF	20%	300V						
C621	1-136-519-11	FILM	0.47MF	20%	300V						
C622	1-162-578-00	CERAMIC	0.0047MF	20%	400V						
C623	1-162-578-00	CERAMIC	0.0047MF	20%	400V						
C629	1-102-316-00	CERAMIC	15PF	5%	500V						
C631	1-102-228-00	CERAMIC	470PF	10%	500V						
C801	1-124-499-11	ELECT	1MF	20%	50V						
C802	1-123-932-00	ELECT	4.7MF	20%	160V						
C803	1-110-171-81	MYLAR	0.047MF	10%	100V						
C804	1-110-185-81	MYLAR	0.0039MF	10%	400V						
C805	1-102-244-00	CERAMIC	220PF	10%	500V						
C806	1-162-116-51	CERAMIC	680PF	10%	2KV						
C807	1-110-332-81	MYLAR	0.82MF	10%	63V						
C808	1-136-645-11	FILM	0.068MF	10%	160V						
C812	1-136-073-11	FILM	0.0073MF	3%	2KV						
C813	1-102-074-00	CERAMIC	0.001MF	10%	50V						
C814	1-124-908-11	ELECT	22MF	20%	50V						
C815	1-123-943-00	ELECT	1MF	20%	250V						
C818	1-126-101-11	ELECT	100MF	20%	16V						
C821	1-110-178-81	MYLAR	0.18MF	10%	100V						
C822	1-136-629-11	FILM	0.82MF	5%	160V						
C825	1-110-190-81	MYLAR	0.01MF	10%	400V						
C851	1-123-948-00	ELECT	22MF	20%	250V						
C852	1-162-114-00	CERAMIC	0.0047MF		2KV						
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V						
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V						
C857	1-110-182-81	MYLAR	0.022MF	10%	250V						
C858	1-123-357-00	ELECT	22MF	20%	50V						
C859	1-126-101-11	ELECT	100MF	20%	16V						
C860	1-102-228-00	CERAMIC	470PF	10%	500V						
CF001	1-577-082-11	VIBRATOR, CERAMIC									
CND01	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P									
CND21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)									
CND42	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR									
CND43	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR									
CND61	*1-508-765-00	3P PLUG (M)									
CND62	*1-565-458-11	PIN, CONNECTOR 3P									
CND81	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P									
CND82	*1-508-768-00	6P PLUG									
CND83	*1-508-784-00	1P PLUG									
D002	8-719-911-19	DIODE 1SS119									
D003	8-719-911-19	DIODE 1SS119									
D004	8-719-911-19	DIODE 1SS119 (KV-M14D ONLY)									
D005	8-719-951-29	DIODE CQX51L-5 (KV-M14D ONLY)									
	*4-389-319-01	HOLDER, LED; D005									
D007	8-719-911-19	DIODE 1SS119									
D008	8-719-911-19	DIODE 1SS119									
D009	8-719-911-19	DIODE 1SS119									
D010	8-719-911-19	DIODE 1SS119									
D011	8-719-911-19	DIODE 1SS119									
D016	8-719-911-19	DIODE 1SS119									
D017	8-719-911-19	DIODE 1SS119									
D019	8-719-911-19	DIODE 1SS119									
D025	8-719-109-71	DIODE RD3.9ES-B1									
D151	8-719-911-19	DIODE 1SS119									
D156	8-719-911-19	DIODE 1SS119									
D402	8-719-109-96	DIODE RD6.8ES-B1									
D403	8-719-109-96	DIODE RD6.8ES-B1									
D404	8-719-109-96	DIODE RD6.8ES-B1									

**KV-M14D/P14D**  
**RM-658**

**D**

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D405	8-719-911-19	DIODE 1SS119		L003	1-408-409-00	INDUCTOR 10UH	
D406	8-719-911-19	DIODE 1SS119		L004	1-408-415-00	INDUCTOR 33UH	
D407	8-719-911-19	DIODE 1SS119		L005	1-410-663-31	INDUCTOR 10UH	
D408	8-719-911-19	DIODE 1SS119		L151	1-408-226-00	INDUCTOR 82UH	
D410	8-719-911-19	DIODE 1SS119		L152	1-410-683-31	INDUCTOR 560UH	
D411	8-719-911-19	DIODE 1SS119		L153	1-408-399-00	INDUCTOR 1.5UH	
D413	8-719-110-30	DIODE RD12ES-B1		L201	1-408-409-00	INDUCTOR 10UH	
D414	8-719-911-19	DIODE 1SS119		L202	1-408-409-00	INDUCTOR 10UH	
D415	8-719-911-19	DIODE 1SS119		L401	1-408-417-00	INDUCTOR 47UH	
D416	8-719-911-19	DIODE 1SS119		L403	1-408-409-00	INDUCTOR 10UH	
D419	8-719-911-19	DIODE 1SS119		L501	1-408-226-00	INDUCTOR 82UH	
D420	8-719-911-19	DIODE 1SS119		L803	1-407-365-00	COIL, CHOKE	
D421	8-719-911-19	DIODE 1SS119		L804	1-408-236-00	INDUCTOR 2.7MMH	
D501	8-719-936-83	DIODE GP08DPKG23		L805	1-459-635-11	HLC	
D551	8-719-936-83	DIODE GP08DPKG23		L806	1-459-856-11	COIL, FERRITE	
D601	8-719-946-90	DIODE KBU4JL-6088		L821	1-408-236-00	INDUCTOR 2.7MMH	
D602	8-719-300-65	DIODE ES1F		L822	1-410-067-21	INDUCTOR 4.7MMH	
D603	8-719-936-83	DIODE GP08DPKG23		L823	1-459-855-11	COIL, FERRITE	
D604	8-719-901-58	DIODE RGP15J					
D605	8-719-924-06	DIODE ERC24-06S					
D606	8-719-908-06	DIODE ERA81-00S					
D607	8-719-924-06	DIODE ERC24-06S					
D608	8-719-924-06	DIODE ERC24-06S					
D609	8-719-936-83	DIODE GP08DPKG23					
D610	8-719-936-83	DIODE GP08DPKG23					
D611	8-719-303-49	DIODE R2M					
D801	8-719-945-80	DIODE ERC06-15S					
D802	8-719-924-06	DIODE ERC24-06S					
D851	8-719-924-06	DIODE ERC24-06S					
D852	8-719-300-65	DIODE ES1F					
D853	8-719-924-06	DIODE ERC24-06S					
D855	8-719-924-06	DIODE ERC24-06S					
D857	8-719-936-83	DIODE GP08DPKG23					
D858	8-719-936-83	DIODE GP08DPKG23					
<u>IC</u>							
IC001	8-759-630-92	IC M50436-616SP					
IC002	8-752-324-79	IC CXK1012P					
IC003	8-741-139-80	IC BX-1398 (KV-M14D ONLY)					
IC004	8-759-157-40	IC UPC574J					
IC005	8-759-105-33	IC UPC78L05J					
IC201	8-759-947-58	IC TDA1013A					
IC401	8-759-240-53	IC TC4053BP					
IC402	8-759-946-32	IC TEA2014A					
IC501	8-759-113-05	IC UPC1488H					
*4-368-683-01		SPRING; IC501					
IC551	8-759-973-52	IC TDA2579A-N7					
IC601	4-365-216-00	SPACER, MICR					
IC601	8-749-901-65	IC STR5404I					
*4-368-683-01		SPRING; IC601					
IC801	8-759-145-58	IC UPC4558C					
IC851	8-759-170-12	IC UPC78M12H					
*4-368-683-01		SPRING; IC851					
<u>JACK</u>							
J201	1-507-678-00	JACK					
J401	1-561-534-00	SOCKET 21P					
J402	1-563-500-11	JACK BLOCK, PIN (L TYPE) 2P					
<u>COIL</u>							
L002	1-408-411-00	INDUCTOR 15UH					
L003	1-408-409-00	INDUCTOR 10UH					
L004	1-408-415-00	INDUCTOR 33UH					
L005	1-410-663-31	INDUCTOR 10UH					
L151	1-408-226-00	INDUCTOR 82UH					
L152	1-410-683-31	INDUCTOR 560UH					
L153	1-408-399-00	INDUCTOR 1.5UH					
L201	1-408-409-00	INDUCTOR 10UH					
L202	1-408-409-00	INDUCTOR 10UH					
L401	1-408-417-00	INDUCTOR 47UH					
L403	1-408-409-00	INDUCTOR 10UH					
L501	1-408-226-00	INDUCTOR 82UH					
L803	1-407-365-00	COIL, CHOKE					
L804	1-408-236-00	INDUCTOR 2.7MMH					
L805	1-459-635-11	HLC					
L806	1-459-856-11	COIL, FERRITE					
L821	1-408-236-00	INDUCTOR 2.7MMH					
L822	1-410-067-21	INDUCTOR 4.7MMH					
L823	1-459-855-11	COIL, FERRITE					
<u>IC LINK</u>							
PS501	1-532-679-91	LINK, IC					
PS802	1-532-679-91	LINK, IC					
<u>TRANSISTOR</u>							
Q001	8-729-900-36	TRANSISTOR DTC124ES					
Q003	8-729-900-63	TRANSISTOR DTA124ES					
Q004	8-729-178-54	TRANSISTOR 2SC2785					
Q005	8-729-178-54	TRANSISTOR 2SC2785					
Q008	8-729-900-36	TRANSISTOR DTC124ES					
Q009	8-729-900-74	TRANSISTOR DTC143TS					
Q012	8-729-117-54	TRANSISTOR 2SA1175					
Q015	8-729-178-54	TRANSISTOR 2SC2785					
Q071	8-729-117-54	TRANSISTOR 2SA1175					
Q151	8-729-900-61	TRANSISTOR DTA114ES					
Q152	8-729-900-61	TRANSISTOR DTA114ES					
Q154	8-729-900-61	TRANSISTOR DTA114ES					
Q155	8-729-178-54	TRANSISTOR 2SC2785					
Q158	8-729-901-59	TRANSISTOR BF199					
Q402	8-729-178-54	TRANSISTOR 2SC2785					
Q403	8-729-117-54	TRANSISTOR 2SA1175					
Q404	8-729-117-54	TRANSISTOR 2SA1175					
Q405	8-729-117-54	TRANSISTOR 2SA1175					
Q406	8-729-900-80	TRANSISTOR DTC114ES					
Q501	8-729-178-54	TRANSISTOR 2SC2785					
Q551	8-729-117-54	TRANSISTOR 2SA1175					
Q601	8-729-906-14	TRANSISTOR BC637-16					
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK					
Q802	8-729-906-69	TRANSISTOR BU506DF					
*4-389-343-01		SPRING; Q802					
Q803	8-729-904-27	TRANSISTOR 2SD1761-E					
Q804	8-729-178-54	TRANSISTOR 2SC2785					
<u>RESISTOR</u>							
R001	1-249-438-11	CARBON 56K 5% 1/4W					
R002	1-249-440-11	CARBON 82K 5% 1/4W					
R004	1-249-439-11	CARBON 68K 5% 1/4W					
R005	1-249-413-11	CARBON 470 5% 1/4W					
R006	1-249-441-11	CARBON 100K 5% 1/4W					
R008	1-249-429-11	CARBON 10K 5% 1/4W					
R009	1-249-429-11	CARBON 10K 5% 1/4W					
R010	1-249-433-11	CARBON 22K 5% 1/4W					
R011	1-249-433-11	CARBON 22K 5% 1/4W					

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R012	1-249-433-11	CARBON	22K 5% 1/4W	R201	1-249-387-11	CARBON	3.3 5% 1/4W
R013	1-249-433-11	CARBON	22K 5% 1/4W	R202	1-247-887-00	CARBON	220K 5% 1/4W
R014	1-218-090-51	METAL OXI DE	22K 5% 2W	R203	1-249-411-11	CARBON	330 5% 1/4W
R015	1-249-421-11	CARBON	2.2K 5% 1/4W	R204	1-247-739-11	CARBON	100 5% 1/2W
R016	1-249-433-11	CARBON	22K 5% 1/4W	R401	1-247-804-11	CARBON	75 5% 1/4W
R017	1-249-407-11	CARBON	150 5% 1/4W	R402	1-247-804-11	CARBON	75 5% 1/4W
R018	1-249-417-11	CARBON	1K 5% 1/4W	R403	1-247-804-11	CARBON	75 5% 1/4W
R019	1-249-413-11	CARBON	470 5% 1/4W	R404	1-247-804-11	CARBON	75 5% 1/4W
R020	1-249-413-11	CARBON	470 5% 1/4W	R405	1-249-411-11	CARBON	330 5% 1/4W
R021	1-249-413-11	CARBON	470 5% 1/4W	R406	1-249-411-11	CARBON	330 5% 1/4W
R022	1-249-411-11	CARBON	330 5% 1/4W	R407	1-249-411-11	CARBON	330 5% 1/4W
R023	1-249-416-11	CARBON	820 5% 1/4W	R408	1-249-431-11	CARBON	15K 5% 1/4W
R029	1-249-429-11	CARBON	10K 5% 1/4W	R409	1-249-431-11	CARBON	15K 5% 1/4W
R030	1-249-429-11	CARBON	10K 5% 1/4W	R410	1-249-407-11	CARBON	150 5% 1/4W
R035	1-249-431-11	CARBON	15K 5% 1/4W	R411	1-249-407-11	CARBON	150 5% 1/4W
R037	1-249-429-11	CARBON	10K 5% 1/4W	R412	1-249-407-11	CARBON	150 5% 1/4W
R038	1-249-429-11	CARBON	10K 5% 1/4W	R413	1-249-425-11	CARBON	4.7K 5% 1/4W
R039	1-249-417-11	CARBON	1K 5% 1/4W	R414	1-249-433-11	CARBON	22K 5% 1/4W
R040	1-249-430-11	CARBON	12K 5% 1/4W	R416	1-247-804-11	CARBON	75 5% 1/4W
R042	1-249-433-11	CARBON	22K 5% 1/4W	R418	1-249-417-11	CARBON	1K 5% 1/4W
R043	1-249-429-11	CARBON	10K 5% 1/4W	R419	1-249-425-11	CARBON	4.7K 5% 1/4W
R044	1-249-433-11	CARBON	22K 5% 1/4W	R420	1-249-413-11	CARBON	470 5% 1/4W
R046	1-249-425-11	CARBON	4.7K 5% 1/4W	R421	1-249-409-11	CARBON	220 5% 1/4W
R051	1-249-427-11	CARBON	6.8K 5% 1/4W	R422	1-249-404-00	CARBON	82 5% 1/4W
R052	1-249-413-11	CARBON	470 5% 1/4W	R423	1-249-438-11	CARBON	56K 5% 1/4W
R055	1-249-413-11	CARBON	470 5% 1/4W	R424	1-249-437-11	CARBON	47K 5% 1/4W
R056	1-249-423-11	CARBON	3.3K 5% 1/4W	R425	1-249-437-11	CARBON	47K 5% 1/4W
R058	1-249-429-11	CARBON	10K 5% 1/4W	R426	1-249-405-11	CARBON	100 5% 1/4W
R059	1-249-426-11	CARBON	5.6K 5% 1/4W	R427	1-247-804-11	CARBON	75 5% 1/4W
R060	1-249-417-11	CARBON	1K 5% 1/4W	R428	1-249-432-11	CARBON	18K 5% 1/4W
R063	1-249-422-11	CARBON	2.7K 5% 1/4W	R429	1-249-409-11	CARBON	220 5% 1/4W
R064	1-249-417-11	CARBON	1K 5% 1/4W	R430	1-249-437-11	CARBON	47K 5% 1/4W
R065	1-249-433-11	CARBON	22K 5% 1/4W	R431	1-249-441-11	CARBON	100K 5% 1/4W
R066	1-249-425-11	CARBON	4.7K 5% 1/4W	R432	1-249-437-11	CARBON	47K 5% 1/4W
R070	1-249-429-11	CARBON	10K 5% 1/4W	R434	1-249-419-11	CARBON	1.5K 5% 1/4W
R071	1-249-413-11	CARBON	470 5% 1/4W	R435	1-247-883-00	CARBON	150K 5% 1/4W
R072	1-249-441-11	CARBON	100K 5% 1/4W	R436	1-249-409-11	CARBON	220 5% 1/4W
R073	1-249-435-11	CARBON	33K 5% 1/4W	R437	1-249-429-11	CARBON	10K 5% 1/4W
R074	1-249-429-11	CARBON	10K 5% 1/4W	R444	1-249-411-11	CARBON	330 5% 1/4W
R075	1-249-431-11	CARBON	15K 5% 1/4W	R501	1-249-425-11	CARBON	4.7K 5% 1/4W
R076	1-249-423-11	CARBON	3.3K 5% 1/4W	R502	1-247-744-11	CARBON	270 5% 1/2W
R077	1-249-435-11	CARBON	33K 5% 1/4W	R503	1-218-021-51	METAL OXI DE	470 5% 1W
R078	1-249-427-11	CARBON	6.8K 5% 1/4W	R504	1-247-895-00	CARBON	470K 5% 1/4W
R079	1-249-429-11	CARBON	10K 5% 1/4W	R505	1-249-429-11	CARBON	10K 5% 1/4W
R080	1-249-429-11	CARBON	10K 5% 1/4W	R506	1-249-424-11	CARBON	3.9K 5% 1/4W
R084	1-249-424-11	CARBON	3.9K 5% 1/4W	R507	1-249-435-11	CARBON	33K 5% 1/4W
R085	1-247-881-00	CARBON	120K 5% 1/4W	R508	1-216-347-11	METAL OXI DE	0.68 5% 1W
R086	1-249-429-11	CARBON	10K 5% 1/4W	R509	1-247-895-00	CARBON	470K 5% 1/4W
R151	1-249-405-11	CARBON	100 5% 1/4W	R510	1-249-439-11	CARBON	68K 5% 1/4W
R152	1-249-423-11	CARBON	3.3K 5% 1/4W	R511	1-247-893-11	CARBON	390K 5% 1/4W
R153	1-249-433-11	CARBON	22K 5% 1/4W	R512	1-218-025-51	METAL OXI DE	1K 5% 1W
R154	1-249-429-11	CARBON	10K 5% 1/4W	R513	1-249-424-11	CARBON	3.9K 5% 1/4W
R155	1-249-418-11	CARBON	1.2K 5% 1/4W	R551	1-217-726-91	FUSIBLE	120 5% 1/4W
R156	1-247-891-00	CARBON	330K 5% 1/4W	R552	1-249-419-11	CARBON	1.5K 5% 1/4W
R157	1-249-421-11	CARBON	2.2K 5% 1/4W	R553	1-249-426-11	CARBON	5.6K 5% 1/4W
R158	1-249-421-11	CARBON	2.2K 5% 1/4W	R554	1-249-404-00	CARBON	82 5% 1/4W
R160	1-249-405-11	CARBON	100 5% 1/4W	R555	1-249-423-11	CARBON	3.3K 5% 1/4W
R162	1-249-425-11	CARBON	4.7K 5% 1/4W	R556	1-249-418-11	CARBON	1.2K 5% 1/4W
R163	1-249-425-11	CARBON	4.7K 5% 1/4W	R558	1-249-417-11	CARBON	1K 5% 1/4W
R164	1-249-413-11	CARBON	470 5% 1/4W	R559	1-215-772-91	METAL	27K 5% 1/4W
R172	1-249-423-11	CARBON	3.3K 5% 1/4W	R560	1-215-796-91	METAL	270K 5% 1/4W
R173	1-249-429-11	CARBON	10K 5% 1/4W	R561	1-249-412-11	CARBON	390 5% 1/4W
R180	1-249-419-11	CARBON	1.5K 5% 1/4W	R562	1-215-768-91	METAL	18K 5% 1/4W
R185	1-249-439-11	CARBON	68K 5% 1/4W	R563	1-249-417-11	CARBON	1K 5% 1/4W
R186	1-249-441-11	CARBON	100K 5% 1/4W	R564	1-249-410-11	CARBON	270 5% 1/4W



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The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R565	1-215-454-00	METAL	24K 1% 1/6W			<u>SPARK GAP</u>	
R569	1-249-431-11	CARBON	15K 5% 1/4W	SG801	1-519-422-11	GAP, SPARK	
R571	1-249-436-11	CARBON	39K 5% 1/4W			<u>TRANSFORMER</u>	
R572	1-249-405-11	CARBON	100 5% 1/4W	T601	Δ 1-449-275-11	S.R.T	
R573	1-249-433-11	CARBON	22K 5% 1/4W	T603	Δ 1-424-077-11	TRANSFORMER, LINE FILTER	
				T604	Δ 1-424-078-11	TRANSFORMER, TRIGGER PULSE	
R574	1-249-439-11	CARBON	68K 5% 1/4W	T605	Δ 1-421-862-11	LFT	
R575	1-249-421-11	CARBON	2.2K 5% 1/4W	T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
R576	1-249-432-11	CARBON	18K 5% 1/4W			<u>THERMISTOR</u>	
R601	Δ 1-205-909-11	WI REMOUND	3.3 5% 10W	TH601	Δ 1-806-165-11	THERMISTOR (POSITIVE)	
R602	1-244-939-00	CARBON	560K 5% 1/2W			<u>TUNER</u>	
R603	1-218-096-51	METAL OXIDE	68K 5% 2W	TU101	Δ 1-463-881-11	TUNER, ET (UV-617)	
R604	1-247-750-11	CARBON	680 5% 1/2W			<u>IF BLOCK</u>	
R605	Δ 1-218-265-91	METAL GLAZE	8.2M 5% 1W	VIF101	1-464-960-11	IF BLOCK (IFG-389)	
R606	1-217-723-91	FUSIBLE	68 5% 1/4W			*****	
R608	1-218-055-51	METAL OXIDE	27 5% 2W			MI SCELLANEOUS	
						*****	
R609	1-217-739-21	WI REMOUND	0.27 10% 2W			1-452-032-00	MAGNET, DISK; 10MM ϕ
R610	1-247-887-00	CARBON	220K 5% 1/4W			1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ
R612	1-217-809-91	FUSIBLE	0.33 5% 1/4W			1-452-277-00	MAGNET, BMC
R613	1-217-811-91	FUSIBLE	0.47 5% 1/4W			Δ 1-559-346-11	CORD, POWER (WITH CONNECTOR)
R615	1-249-399-11	CARBON	33 5% 1/4W			L901	Δ 1-426-145-21
R617	1-216-354-11	METAL OXIDE	2.7 5% 1W F			L902	Δ 1-451-249-31
						SP901	1-503-767-11
R801	1-217-811-91	FUSIBLE	0.47 5% 1/4W			V901	Δ 8-735-555-05
R802	1-205-796-11	WI REMOUND	4.7K 10% 5W F				
R804	1-217-822-91	FUSIBLE	4.7K 5% 1/4W			*****	
R805	1-249-399-11	CARBON	33 5% 1/4W			ACCESSORIES AND PACKING MATERIALS	
R806	1-249-421-11	CARBON	2.2K 5% 1/4W			*****	
						<u>Part No.</u>	<u>Description</u>
R807	1-217-723-91	FUSIBLE	68 5% 1/4W			A-1470-839-A	COMMANDER ASSY (RM-658)(KV-M14D ONLY)
R808	1-216-347-11	METAL OXIDE	0.68 5% 1W F			1-417-151-11	MATCHING TRANSFORMER, ANTENNA
R822	1-247-881-00	CARBON	120K 5% 1/4W			1-501-372-11	ANTENNA, TELESCOPIC
R823	1-217-817-91	FUSIBLE	1.8K 5% 1/4W			*4-378-262-01	BAG, PROTECTION
R824	1-249-434-11	CARBON	27K 5% 1/4W			*4-389-325-01	CUSHION (UPPER) (ASSY)
						*4-389-326-01	CUSHION (LOWER) (ASSY)
R826	1-249-430-11	CARBON	12K 5% 1/4W			*4-389-327-01	INDIVIDUAL CARTON
R827	1-249-417-11	CARBON	1K 5% 1/4W			4-482-575-11	MANUAL, INSTRUCTION
R828	1-249-438-11	CARBON	56K 5% 1/4W				
R829	1-247-887-00	CARBON	220K 5% 1/4W				
R830	1-249-425-11	CARBON	4.7K 5% 1/4W				
R833	1-217-713-91	FUSIBLE	10 5% 1/4W				
R852	1-218-022-51	METAL OXIDE	560 5% 1W				
R854	1-217-811-91	FUSIBLE	0.47 5% 1/4W				
R855	1-202-830-00	SOLID	10K 10% 1/2W				
R856	1-217-825-91	FUSIBLE	8.2K 5% 1/4W				
R857	1-247-887-00	CARBON	220K 5% 1/4W				
		<u>VARIABLE RESISTOR</u>					
RV401	1-238-163-11	RES, VAR, CARBON 10K					
RV501	1-238-016-11	RES, ADJ, CARBON 10K					
RV552	1-238-020-11	RES, ADJ, CARBON 100K					
RV553	1-238-016-11	RES, ADJ, CARBON 10K					
RV801	1-223-102-00	RES, ADJ, WI REMOUND 120					
RV802	1-238-019-21	RES, ADJ, CARBON 47K					
		<u>SWITCH</u>					
S001	1-571-532-21	SWI TCH, TACTIL					
S002	1-571-532-21	SWI TCH, TACTIL					
S003	1-571-532-21	SWI TCH, TACTIL					
S004	1-571-532-21	SWI TCH, TACTIL					
S005	1-571-532-21	SWI TCH, TACTIL					
S006	1-571-532-21	SWI TCH, TACTIL					
S007	1-571-532-21	SWI TCH, TACTIL					
S008	1-571-532-21	SWI TCH, TACTIL					
S009	1-571-532-21	SWI TCH, TACTIL					